$1.00

YARD-MAN

OUTDOOR POWER EQUIPMENT
for all seasons

Spring | Summer | Fall | Winter

Owner's Manual

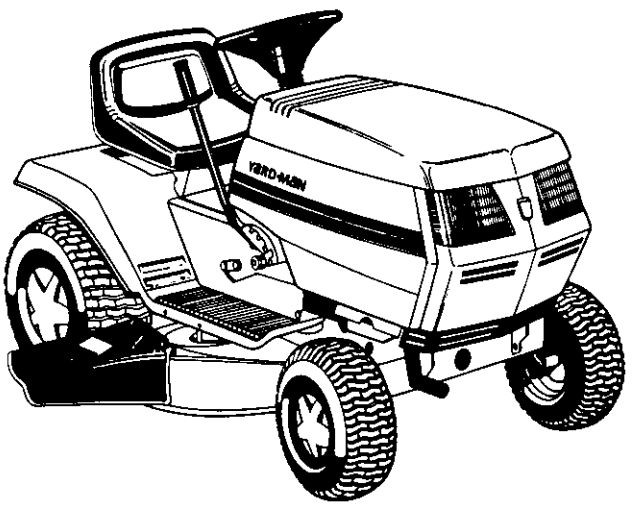
- ASSEMBLY
- OPERATION
- MAINTENANCE
- PARTS LIST

IMPORTANT:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product.

12 H.P. LAWN TRACTOR



Model Number 130704F

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FORM NO. 770-7102E

INDEX

Slope Gauge 3
Contents of Hardware Pack 4
Rules for Safe Operation 5
Assembly Instructions 6
Controls 10
Operation 11
Adjustments 12
Lubrication 14
Maintenance 15
Off-Season Storage 18
Trouble Shooting Guide 19, 20
Illustrated Parts for Lawn Tractor 22-35
Parts Information . . . . . Back Cover

Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at YARD-MAN COMPANY are taking a quick moment out to say. . .

"Thank you for your business."

Sincerely,
YARD-MAN COMPANY

INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

TWO YEAR LIMITED WARRANTY

For two years from the date of original retail purchase, YARD-MAN COMPANY will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by YARD-MAN COMPANY.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or if the unit has not been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, Peerless components, motor, battery (except as noted below) or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

A battery which proves defective within ninety (90) days will be replaced without charge. After 90 days but within one hundred twenty (120) days of purchase, YARD-MAN COMPANY will replace the defective battery for a charge of 1/2 of the current retail price of the battery in effect at the date of return.

Warranty on units used commercially is limited to sixty (60) days.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of YARD-MAN.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by YARD-MAN.

This express limited warranty is in lieu of all other warranties, express or implied, including any implied warranty of merchantability. The remedy of replacement is the sole and exclusive remedy for YARD-MAN obligations arising from the sale of its products. In no case will YARD-MAN be liable for incidental or consequential loss or damage.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

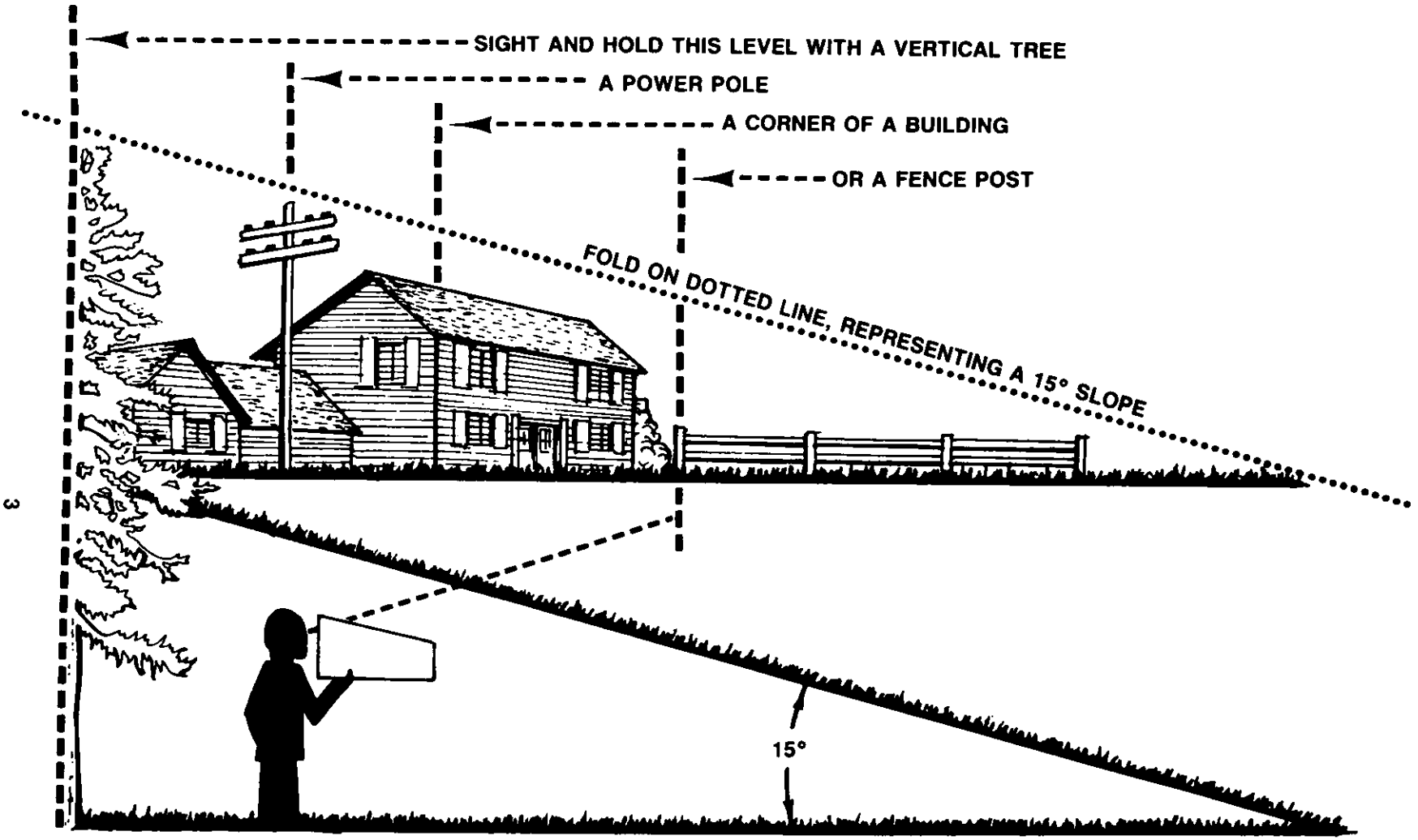
In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the customer service department of YARD-MAN COMPANY.

Cut Along This Line

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.


SIGHT AND HOLD THIS LEVEL WITH A VERTICAL TREE
A POWER POLE
A CORNER OF A BUILDING
OR A FENCE POST
FOLD ON DOTTED LINE, REPRESENTING A 15° SLOPE
15°

WARNING

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

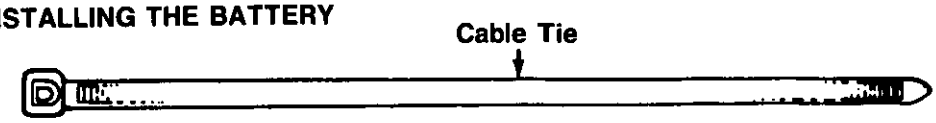
Operate RIDING mowers up and down slopes, never across the face of slopes.
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

CONTENTS OF HARDWARE PACK

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use.

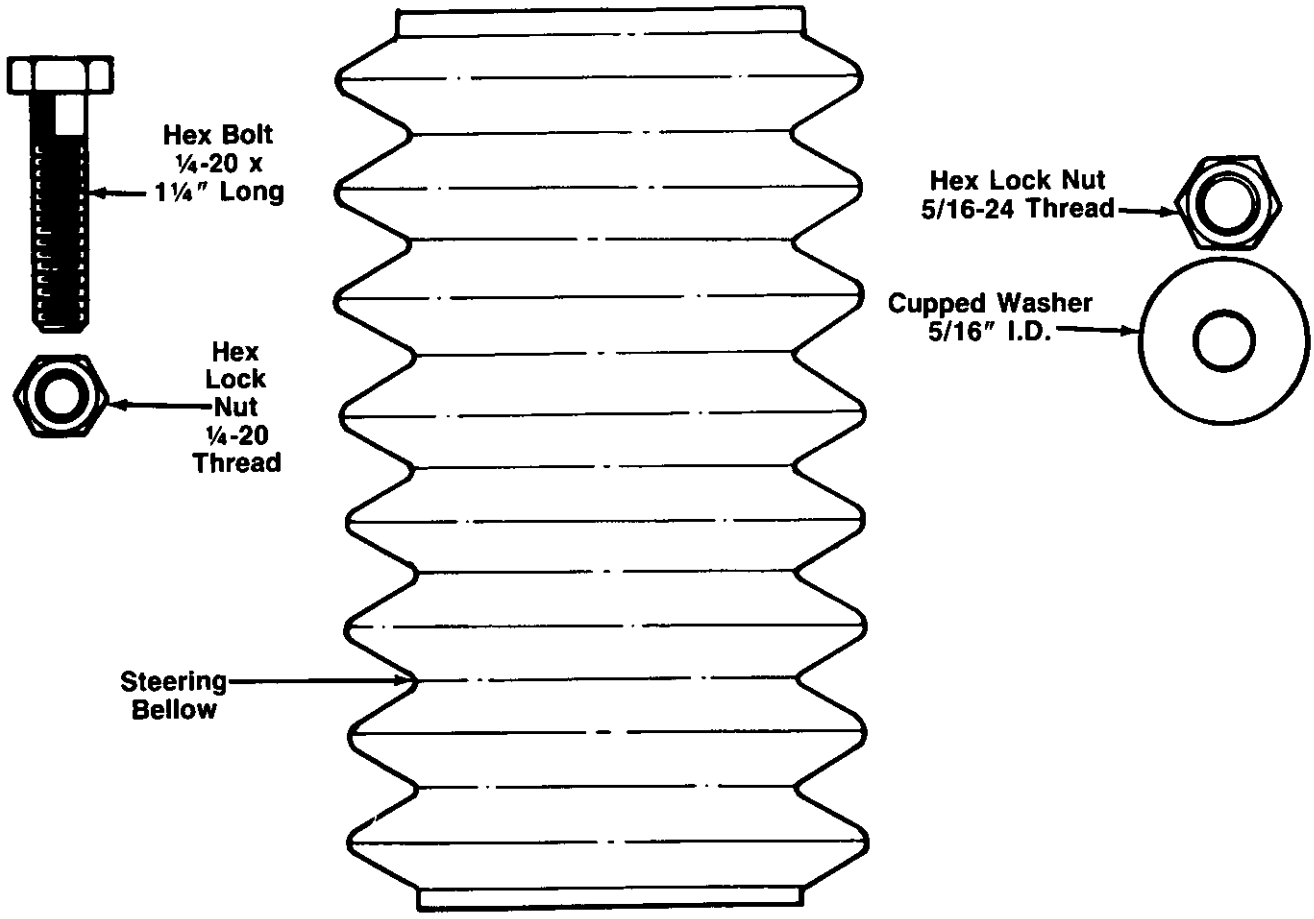
(Hardware pack may contain extra items which are not used on your unit.)

A INSTALLING THE BATTERY

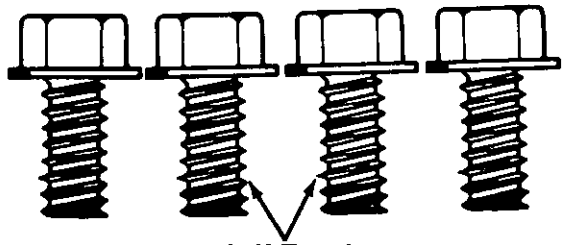


B ATTACHING THE STEERING WHEEL

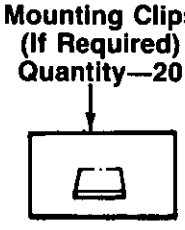
(Steering Wheel Insert is Not Shown)



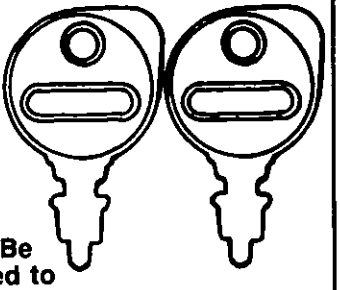
C ATTACHING THE SEAT



D FINAL ASSEMBLY



E IGNITION KEYS



Cut Along This Line

IMPORTANT

RULES FOR SAFE OPERATION

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR UNIT. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**

DANGER

Your unit was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

1. READ THIS OWNER'S MANUAL carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop the machine quickly.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
6. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
7. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
8. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
9. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury to you or a bystander.
10. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
11. Stop the blade(s) when crossing gravel drives, walks or roads.
12. Disengage all attachment clutches and shift into neutral before attempting to start engine.
13. Before leaving the operator's position, disengage blade(s), place shift lever in neutral, engage parking brake, shut engine off and remove key.
14. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
15. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
16. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Disengage power to attachment(s) when transporting or not in use.
18. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15º as shown on the slope gauge, do not operate this unit on that area or serious injury could result.
19. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
20. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in low gear when going down steep hills to take advantage of engine braking action. Choose a low enough gear so that you will not have to stop or shift while on the slope.
21. Stay alert for holes in terrain and other hidden hazards which may cause the unit to tip over.
22. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
23. Watch out for traffic when crossing or near roadways.
24. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
25. Handle gasoline with care. It is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline. Always use original type vented cap.
    C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
26. Never store the machine with fuel in the fuel tank inside a building where ignition sources are present, such as hot water and space heaters, clothes dryers, and the like. Allow the engine to cool before storing in any enclosure.
27. To reduce fire hazard, keep engine and cutting deck free of grass, leaves or excessive grease.
28. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in operator's manual.
29. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
30. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
31. Do not change the engine governor settings or overspeed the engine.

Rules for Safe Operation (continued)

32. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
(3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
(4) Check blade mounting bolts for proper tightness at frequent intervals.
33. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
34. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up. Disengage blades before shifting into reverse and backing up.
35. This unit should not be driven up a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load properly.
36. Check brake operation frequently. Adjust and service according to brake adjustment instructions in this manual.

ASSEMBLY

IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL; however, a small amount of oil may be present from the factory. Do not overfill. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

Refer to the separate deck manual for all information concerning the deck.

NOTE: Reference to right or left hand side of the unit is observed from the driver's seat, facing forward.

UNPACKING

1. Remove the lawn tractor from the carton as follows. Open the top flaps. Remove all loose parts and carton inserts. Cut the front corners of the carton. Making certain brake is released, use the relief valve and push the unit out of the carton.
2. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

BATTERY INFORMATION

WARNING

A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.*

B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.

C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.

D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.

E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.

F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.

G. As a further precaution, only charge the battery in a well-ventilated area.

***Always shield eyes, protect skin and clothing when working near batteries.**

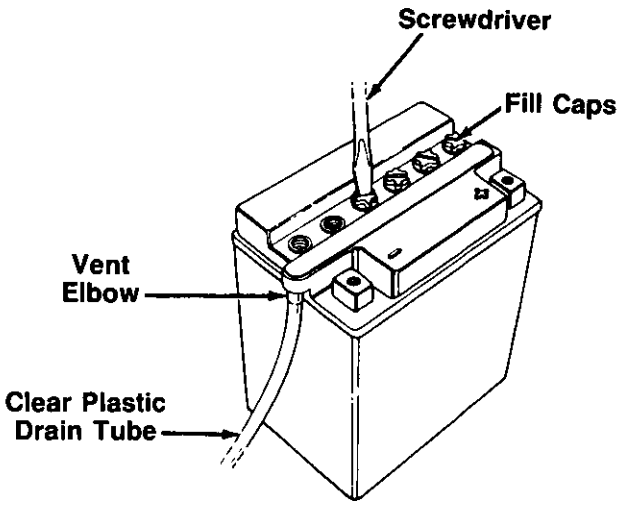


FIGURE 1.

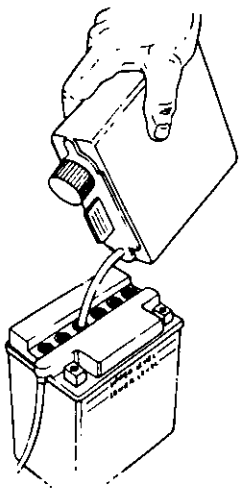


FIGURE 2.

DANGER

Battery contains sulfuric acid. Refer to warning on page 6. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES: Flush with cool water for at least 15 minutes, then get prompt medical attention.

Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away. Be sure to charge battery only in well-ventilated areas. Make certain venting path of battery (drain tube) is always open.

KEEP BATTERIES
OUT OF THE REACH OF CHILDREN!

ACTIVATING THE BATTERY

Do not activate battery (fill with battery acid) until battery is actually placed in service. Be certain to read previous warnings before activating the battery.

1. Open the battery pack. Be careful not to puncture the box. It contains the battery with a long plastic tube attached, battery fluid (acid) in a plastic container, one short plastic tube and one hardware pack (two hex bolts and nuts).
2. Place the battery on a table or workbench. Make certain the long plastic drain tube is in place on the vent elbow.
3. Remove the six fill caps from the top of the battery with a screwdriver. Be careful not to damage the fill caps. See figure 1.
4. Place the battery fluid container on the table or workbench. Carefully cut off tip of the spout and attach the short plastic tube provided. Do not squeeze the container when cutting tip.
5. Fill each battery cell slowly and carefully to the UPPER LEVEL line marked on battery. See figure 2. Use caution as the acid level will rise rapidly after the bottom of the cell is filled.
6. Allow battery to stand for 30 minutes with the fill caps removed, while the plates absorb acid.
7. If acid level has fallen after the 30 minute standing period, refill each cell with battery acid to the UPPER LEVEL line on battery. Replace the fill caps.
8. Before discarding the empty container, neutralize any residue with baking soda and rinse container with water. Puncture container several times before discarding.
9. Charge the battery after the 30 minute standing period. SLOW CHARGE THE BATTERY (DO NOT FAST CHARGE) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

NOTE: This engine is equipped with an alternator. The current for the battery charger alternator is unregulated. During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

NOTE: Charging rate after battery has been put into operation—the battery is to be charged for a period of 14-16 hours. NO LONGER THAN 30 HOURS.
After battery has been charged, add only distilled water. Do not add acid.

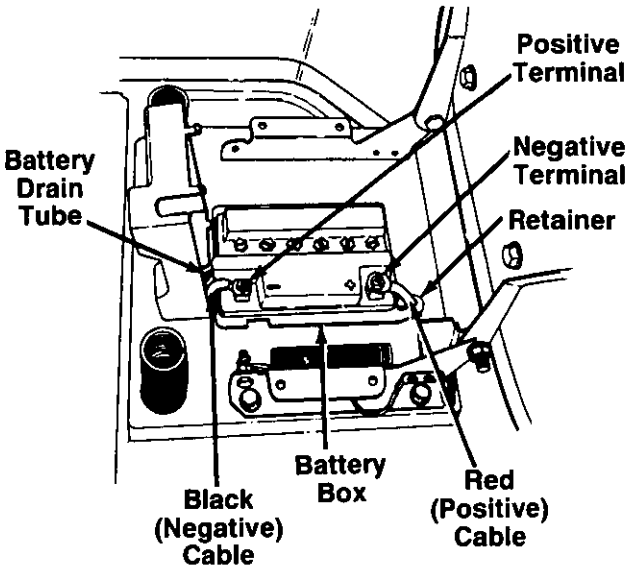


FIGURE 3.

INSTALLING THE BATTERY (Hardware A)

1. Raise the seat bracket (on top of the fender).
2. Make certain the positive cable (heavy red wire) extends through the retainer on the front of the battery box. The negative cable (heavy black wire) should be routed up along the back of the battery box.
3. Place the battery inside the battery box so that the positive terminal is toward the front of the unit. See figure 3. Route the battery drain tube down beside the battery box.
4. Slide the hex nut (provided with battery hardware) into the positive (+) terminal. Place the positive cable on the positive terminal. Secure with bolt provided. See figure 3.
5. Slide the hex nut (provided with battery hardware) into the negative (–) terminal. Place the negative cable on the negative terminal. Secure with bolt provided.

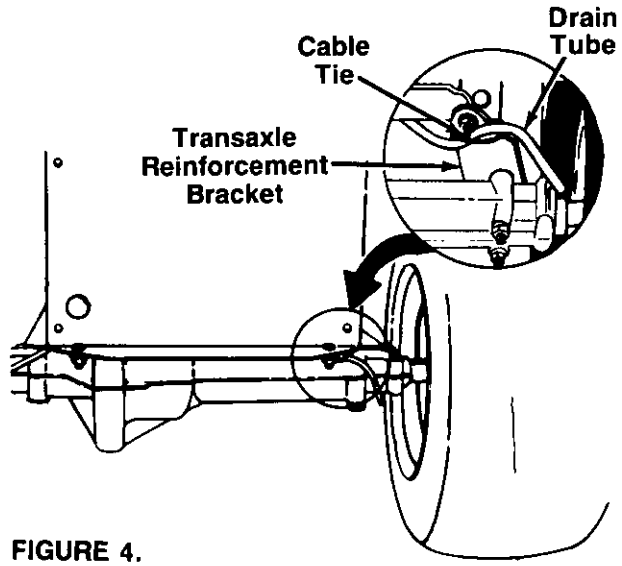


FIGURE 4.

6. Secure the drain tube to the transaxle reinforcement bracket on the **right** side of the unit, using the cable tie as shown in figure 4. Be certain drain tube is routed away from the wheel rim. Trim excess end of cable tie.
7. Close the top of the battery box and lower the seat.

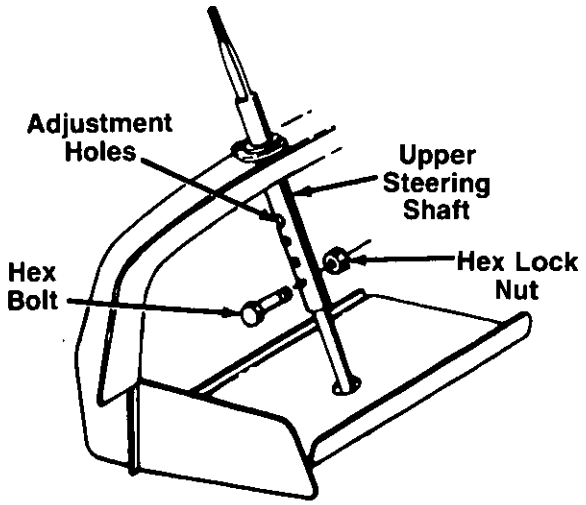


FIGURE 5.

ATTACHING THE STEERING WHEEL (Hardware B)

1. Open the hood of the lawn tractor by lifting up on both sides of the hood.
2. If not already assembled, insert large end of the upper steering shaft through the hole in the dash panel, over the lower steering shaft. See figure 5. The four holes in the upper steering shaft provide four steering wheel heights. Select desired hole, and secure with hex bolt and hex lock nut.

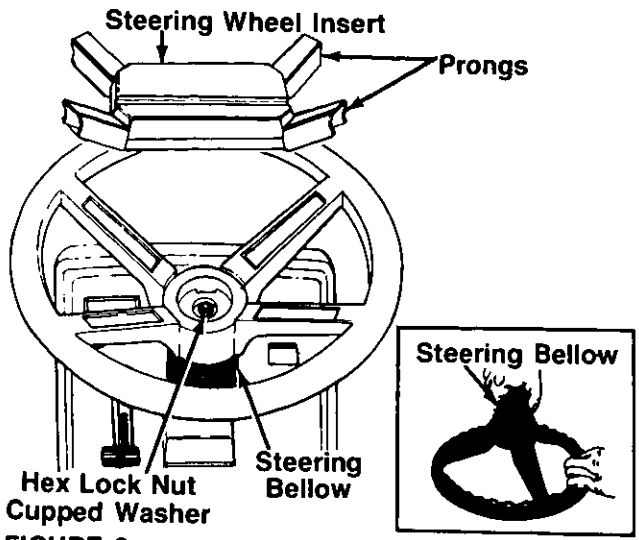


FIGURE 6.

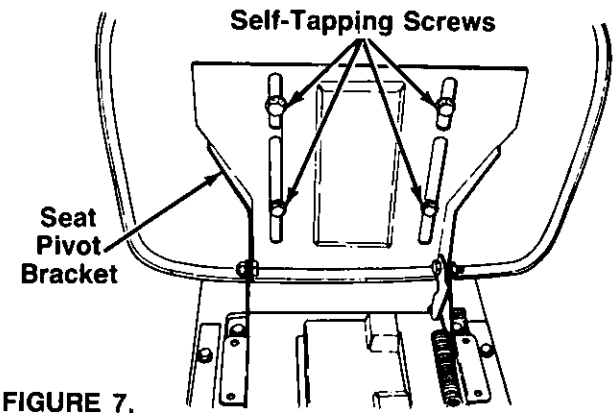


FIGURE 7.

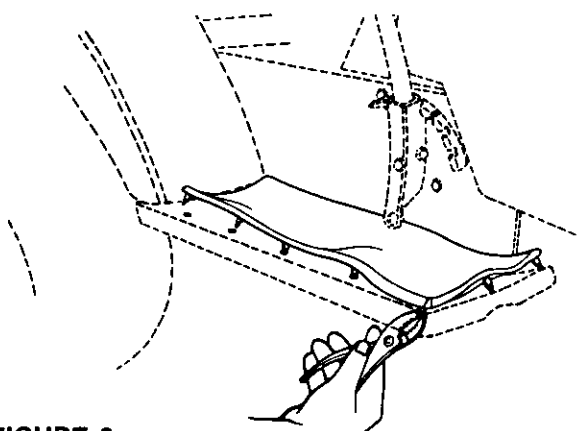


FIGURE 8.

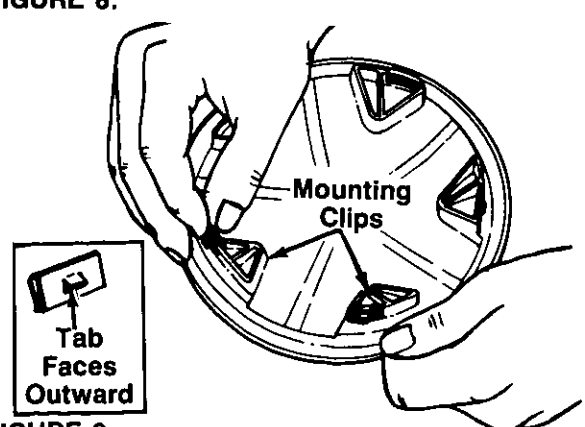


FIGURE 9.

3. Attach one end of steering bellow to the steering wheel as shown in figure 6, inset.
4. Position the front wheels of the tractor so they are pointing straight forward.
5. Place the steering wheel and steering bellow over the steering shaft, positioning steering wheel as shown.
6. Place the washer with the cupped side down over the steering shaft. Secure with 5/16" hex lock nut. See figure 6.
7. Attach the steering wheel insert to the steering wheel as follows.
   A. Place the two prongs on one side of the insert over two of the spokes on the steering wheel. Press into place.
   B. Press the prongs on the other side of the insert over the other two spokes on the steering wheel.

ATTACHING THE SEAT (Hardware C)

Place the seat in position against the seat pivot bracket, lining up the slotted holes in the pivot bracket with the holes in the seat. Select desired position for the seat, and secure with hex self-tapping screws. See figure 7.

ATTACHING THE CHUTE DEFLECTOR

If your unit has been shipped without the chute deflector assembled, follow the instructions in the separate deck manual packed with your unit.

WARNING: Do not operate your unit unless the chute deflector has been properly installed.

FINAL ASSEMBLY (Hardware D)

1. If not already assembled, attach the foot pads as follows. Position one foot pad on top of the running board on the tractor, lining up the studs on the bottom of pad with the holes in the running board. Pull the studs through the holes in the running board using a pair of pliers. Repeat on other side of tractor. See figure 8.
2. If not already assembled, attach the four hub caps as follows.
   a. Slide five mounting clips on each hub cap as shown in figure 9, with the tabs on the mounting clips facing outward.
   b. Line up hub caps with wheel rims. Push hub caps on by hand.

TIRE PRESSURE

The tires on your unit may be over-inflated for shipping purposes. Reduce the tire pressure before operating the unit. Recommended operating tire pressure is approximately 12 p.s.i. (check sidewall of tire for tire manufacturer's recommended pressure).

WARNING: Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

CONTROLS

IGNITION SWITCH

The ignition switch is located on the dashboard. Turn the key to the START position to start the engine. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position. See figure 10.

WARNING: Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

THROTTLE CONTROL

The throttle control is located on the left side of the dashboard and is used to regulate the engine speed. See figure 10. The engine should be operated from ¾ to full throttle (FAST) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller.

CHOKE CONTROL

The choke control is located on the right side of the dashboard and is operated manually. Details for the choke operation are covered in the separate engine manual packed with your unit. See figure 10.

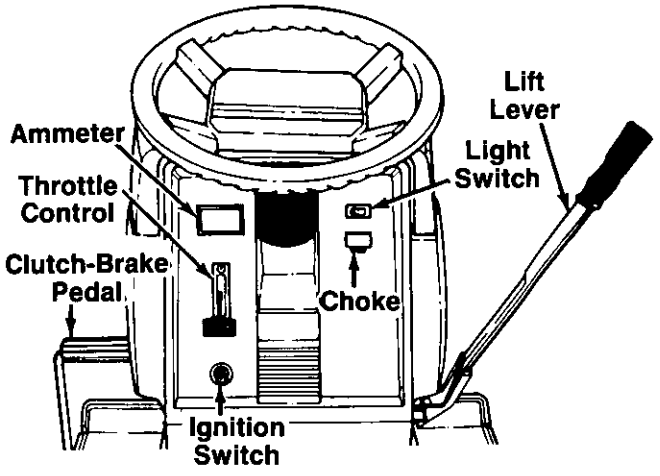


FIGURE 10.

LIGHT SWITCH

The head lamps are operated by pushing the light switch located on the dashboard. The head lamps will only operate when the engine is running. See figure 10.

AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter will register on the discharging side with starting the engine. It should register on the opposite side (charging) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling, the ammeter will not show a charge. See figure 10.

HYDROSTATIC CONTROL LEVER

The hydrostatic control lever is located on top of the fender on the left side of the tractor. This single control lever, connected to the hydrostatic transmission, controls both the speed and direction of the tractor. Infinite speed control is achieved by moving the control lever forward or backward. The farther forward or backward you move the control lever, the faster you will travel. Pulling the control lever into neutral (N) area will stop the tractor. See figure 11.

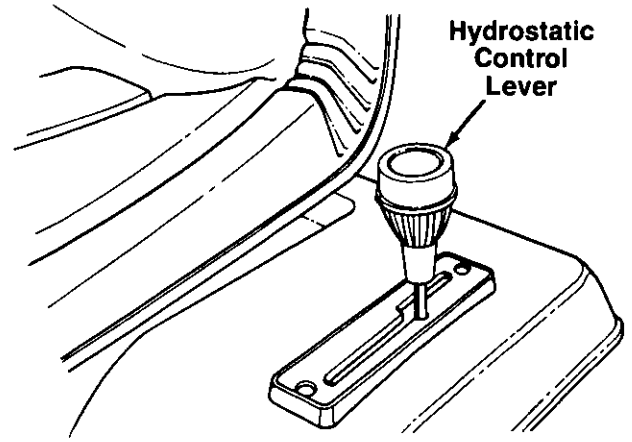


FIGURE 11.

CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the left side of the tractor. See figure 10. Depressing the pedal returns the drive unit to neutral (N) and applies the brake.

NOTE: *The clutch-brake pedal must be depressed to start the engine.*

PARKING BRAKE

To set the parking brake, depress the clutch-brake pedal, pull up the parking brake knob and release the clutch-brake pedal. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal. See figure 12.

NOTE: *The parking brake must be set if the operator leaves the seat with the engine running.*

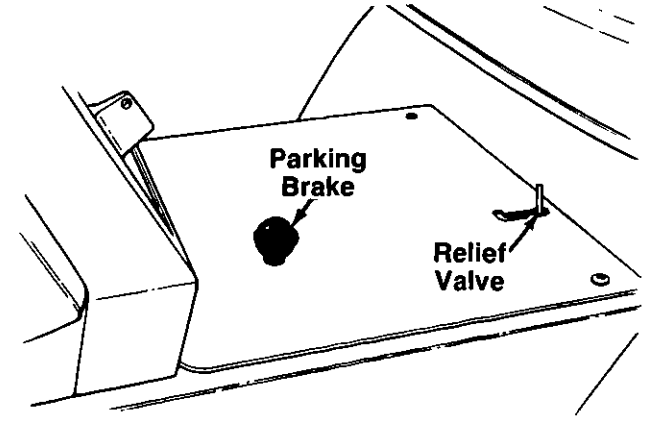


FIGURE 12.

RELIEF VALVE

A hydrostatic relief valve is provided so the unit can be moved without the engine running. The lever which operates the relief valve is located on the console. See figure 12.

To operate the relief valve, place the hydrostatic control lever in neutral, release the parking brake, push the lever forward and to the right to lock. Be certain to release the lever by pushing it to the left before operating the engine.

CUTTING CONTROLS

A. LIFT LEVER

The lift lever is used to raise and lower the cutting deck and to engage and disengage the blades. Pulling it all the way back and locking it disengages the blades.

NOTE: *The lift lever **must** be in the disengaged position when starting the engine, when shifting into reverse and if the operator leaves the seat. See figure 13.*

B. DECK LIFT INDICATOR

The deck lift indicator marks the position being used for the lift lever. Select the lift lever position desired, press the indicator lever outward, move it to the position immediately below the lift lever and release the indicator lever. See figure 13.

C. SETTING THE CUTTING HEIGHT

1. Select the position for the lift lever which gives the desired cutting height. Move the deck lift indicator so that the lift lever can be returned to the same position after it is raised.
2. Move the deck wheels to the hole location so the wheels are ¼ to ½ inch above the ground.

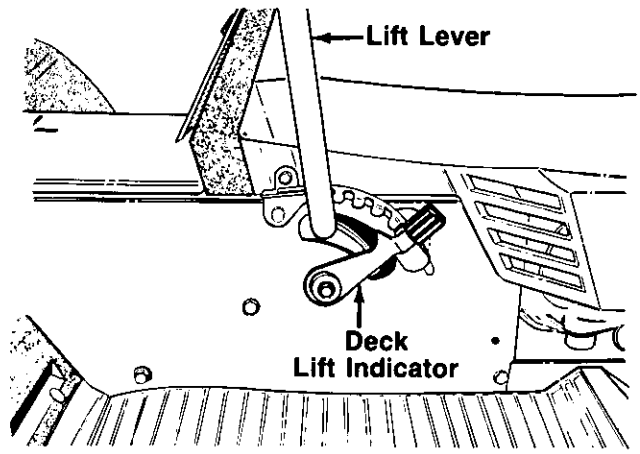
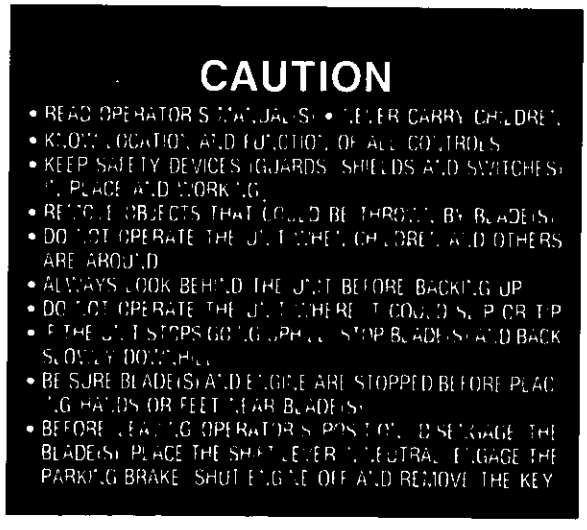


FIGURE 13.

OPERATION


CAUTION
• READ OPERATOR'S MANUAL(S) • NEVER CARRY CHILDREN
• KNOW LOCATION AND FUNCTION OF ALL CONTROLS
• KEEP SAFETY DEVICES (GUARDS, SHIELDS AND SWITCHES) IN PLACE AND WORKING
• REMOVE OBJECTS THAT COULD BE THROWN BY BLADE(S)
• DO NOT OPERATE THE UNIT WHERE CHILDREN AND OTHERS ARE AROUND
• ALWAYS LOOK BEHIND THE UNIT BEFORE BACKING UP
• DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP
• IF THE UNIT STOPS GOING UPHILL, STOP BLADE(S) AND BACK SLOWLY DOWNHILL
• BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S)
• BEFORE LEAVING OPERATOR'S POSITION DISENGAGE THE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, ENGAGE THE PARKING BRAKE, SHUT ENGINE OFF AND REMOVE THE KEY

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your tractor. Read instructions carefully.

NOTE: *Your tractor is shipped without oil; however, a small amount of oil may be present from the factory. Do not overfill.*

WARNING: Never fill fuel tank indoors, with engine running or while engine is hot.

Check the fluid level in the hydrostatic transmission before initial operation. Refer to the Lubrication section on page 14.

STARTING THE ENGINE

IMPORTANT: This unit is equipped with a **safety interlock system** for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the lift lever is in the disengaged position. In addition, the lift lever must be in the disengaged position when the unit is put into reverse or the engine will shut off. If the operator leaves the seat with the lift lever engaged, and/or without setting the parking brake, the engine will shut off.

WARNING: Do not operate the tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.

1. Place the lift lever in the DISENGAGED position.

2. Depress the clutch-brake pedal and set the parking brake.
3. Place the hydrostatic control lever in the NEUTRAL (N) position.
4. Set the throttle control in the FAST position.
5. Pull out the choke control (a warm engine may not require choking).
6. Turn the ignition key to the right to the START position. After the engine starts, release the key. It will return to the ON position.

NOTE: *Protect the starter life by using short starting cycles of several seconds. Cranking more than 15 seconds per minute can damage the starter motor.*

7. Push choke knob in gradually. Move the throttle control to desired engine speed.

STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position. Remove the key to prevent accidental starting.

IMPORTANT: If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

NOTE: *If any problems are encountered, refer to the Trouble Shooting Chart on page 19.*

COLD WEATHER STARTING KIT

A cold weather starting kit is available to disengage the drive belt to provide easier starting for the hydrostatic transmission when the weather is cold. Order part number 753-0509.

OPERATING THE LAWN TRACTOR

1. Set the desired cutting height.
2. Start the engine as instructed on page 11.
3. Move throttle control to full throttle to prevent strain on the engine and to operate the cutting blades. ting blades.
4. Depress the clutch-brake pedal so the parking brake is released, and then release the clutch-brake pedal.
5. Place the hydrostatic control lever in either the FORWARD or REVERSE position. The farther forward you move the hydrostatic control lever, the faster you will travel.

WARNING: Look to the rear before backing up.

To stop the lawn tractor, pull the hydrostatic control lever into NEUTRAL (N) or depress the clutch-brake pedal.

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn tractor or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

WARNING: Before leaving the operator's position for any reason, disengage the blades, place the hydrostatic control lever in neutral, engage the parking brake, shut engine off and remove the key.

When stopping the unit to empty a grass bag, etc., follow the instructions in previous column. This procedure will also eliminate "browning" the grass, which is caused by hot exhaust gases from a running engine.

GRASS COLLECTOR AVAILABLE

Grass Collector Model 190063 is available as optional equipment for the lawn tractor shown in this manual.

WARNING: The mower should not be operated without the entire grass catcher or chute deflector in place.

NOTE: *Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.*

For replacement bags, use only factory authorized replacement bag.

ADJUSTMENTS

WARNING: Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

SEAT ADJUSTMENT

To adjust the position of the seat, loosen the four self-tapping screws on the bottom of the seat. See figure 7. Slide the seat forward or backward as desired. Retighten the self-tapping screws.

HYDROSTATIC CONTROL ADJUSTMENT

The hydrostatic transmission control is in correct adjustment when the lawn tractor does not move with the engine running, the clutch engaged and the hydrostatic control lever in the neutral (N) position.

If adjustment is necessary, follow these steps.

NOTE: *A rachet wrench with a ½" socket extension is required to make this adjustment.*

1. Loosen the bolt and nut on the bracket on the hydrostatic control lever. See figure 14.

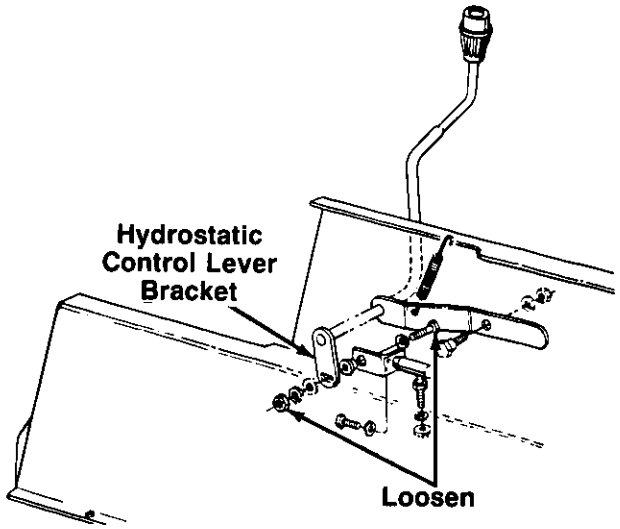


FIGURE 14.

2. Start the engine.
3. Push the clutch-brake pedal all the way forward. Then release the pedal completely.

The lawn tractor should not move in either direction. If it does not move, retighten the bolt and nut which secure the hydrostatic control lever. If it does move, shut off the engine and adjust as follows.

4. Remove the transmission panel. Loosen the hex bolt which secures the pintle arm extension to the pintle arm, using a rachet wrench with ½" socket extension. See figure 15.

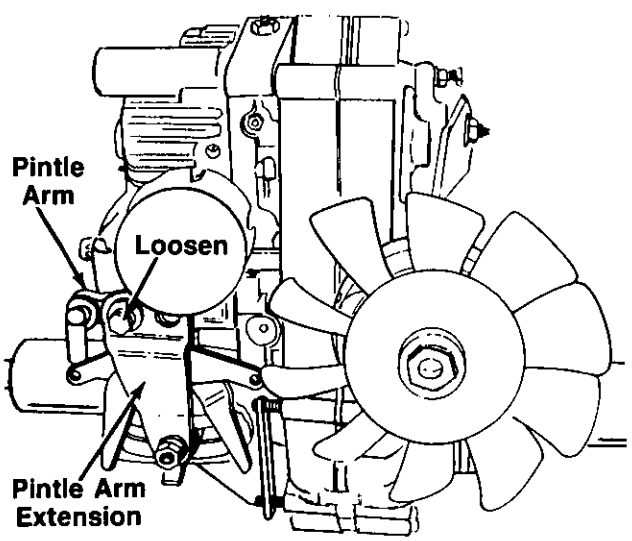


FIGURE 15.—Top View

5. Raise both rear wheels off the ground by placing blocks under the rear frame.
6. Start the engine.
7. Depress the clutch-brake pedal all the way and set the parking brake.
8. Move the hydrostatic control lever to move the pintle arm until you find neutral (rear wheels do not rotate in either direction).

WARNING: Be careful of the cooling fan on the hydrostatic transmission.

9. Tighten the hex bolt which secures the pintle arm extension to the pintle arm.
10. Release the clutch-brake pedal by pushing all the way forward, then releasing the pedal.

Check the wheels for movement. They should not rotate in either direction. If they do, readjust until the wheels do not move (steps 4, 8 and 9). Then adjust the position of the hydrostatic control lever as follows.

11. Shut off the engine.
12. Depress the clutch-brake pedal all the way and set the parking brake.
13. Place the hydrostatic control lever in neutral (N).
14. Tighten the bolt and nut on the bracket on the hydrostatic control lever.
15. Replace the transmission panel.
16. Remove the blocks from under the frame, and test the operation of the lawn tractor.

LEVELING THE DECK

If an uneven cut is obtained, the deck may be leveled as follows.

Check tire pressure in all four tires. Recommended pressure is approximately 12 p.s.i. With the unit on a hard, level surface, measure the distance from the bottom edge of the center of the left side of deck to the ground. Measure the same distance on the right side of the deck, just behind the chute area. Or place the blades in a straight line, and measure the distance from the outside edge of the blade tips to the ground.

Adjust the lift link on the left side of the deck as necessary. See figure 16. Recheck the adjustment.

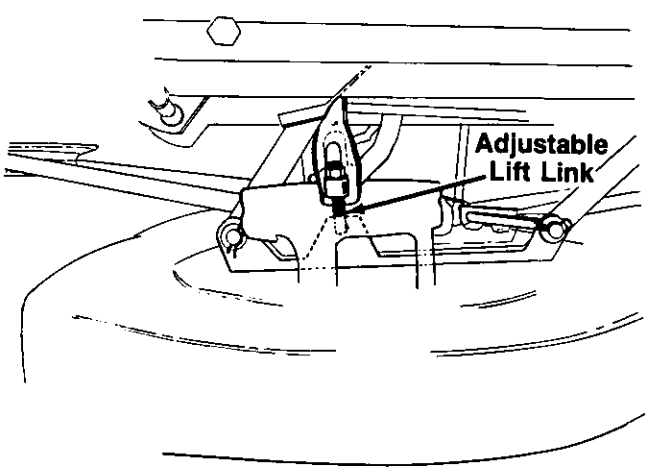


FIGURE 16.

STEERING WHEEL ADJUSTMENT

There are four height positions for the steering wheel. To adjust the height of the steering wheel, remove the hex bolt and hex lock nut on the steering shaft. Place the steering wheel in the position desired and secure with hex bolt and hex lock nut. Refer to figure 5.

NOTE: *When raising the height of the steering wheel, stretch the steering bellow to cover the steering shaft.*

BRAKE ADJUSTMENT (See figure 17)

The brake is located by the right rear wheel inside the frame. During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.

WARNING: Do not adjust the brake while the engine is running. Be sure to block the wheels of the tractor before making the brake adjustment.

To adjust the brake, remove the cotter pin. Adjust the castle nut so the brake starts to engage when the brake lever is 1/4" to 5/16" away from the axle housing.

NOTE: *Figure 17 is shown with the unit tipped up on rear wheels for clarity only.*

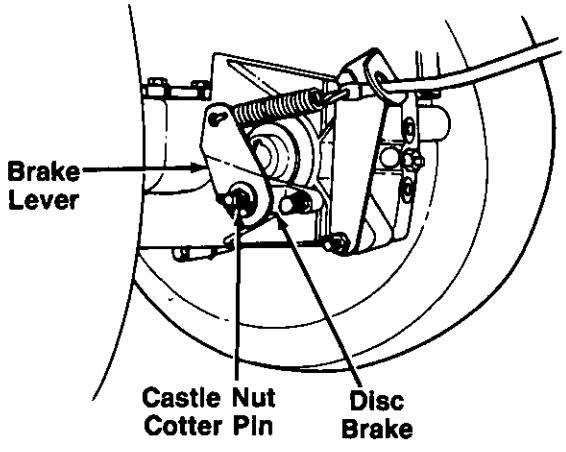


FIGURE 17.

CARBURETOR ADJUSTMENTS

WARNING: If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load. Refer to separate engine manual for carburetor adjustment information.

NOTE: *A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor.*

LUBRICATION

WARNING: Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn tractor.

STEERING GEARS

Lubricate teeth of steering gears with automotive multi-purpose grease after every 25 hours of operation or once a season. See figure 18.

STEERING SHAFT

Lubricate steering shaft at least once a season with light oil.

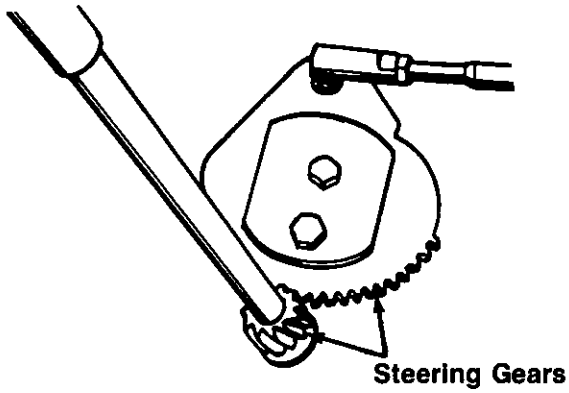


FIGURE 18.

TRANSAXLE

The transaxle is lubricated and sealed at the factory and does not require checking. If disassembled for any reason, lubricate with 16 oz. of grease, part number 737-3047.

LINKAGE

Once a season lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

WHEELS

The front wheels are provided with grease fittings. The rear wheels must be removed from the axle for lubrication. Lubricate at least once a season with automotive multi-purpose grease.

PIVOT POINTS

Lubricate all pivot points with light oil at least once a season.

BALL JOINTS

The ball joints and drag link ends are permanently lubricated.

HYDROSTATIC FLUID LEVEL

The transmission has been filled at the factory and should not require changing for the life of the transmission.

The transmission fluid level should be checked prior to initial use. The level should not be above the LOWER mark which is about ¼" from the bottom of the expansion tank. See figure 19. Overfilling reduces the expansion area in the expansion tank and fluid will spill at operating temperatures.

If transmission fluid is needed, use only 10W30 engine oil rated SF or CD.

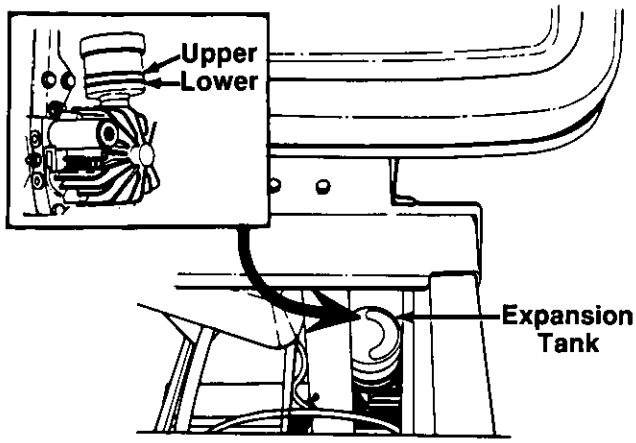


FIGURE 19.

To check or add fluid to the transmission:

1. Unscrew the parking brake knob.
2. Unscrew the two screws holding the access cover located in front of the seat.
3. Check the fluid level in the expansion tank. See figure 19.
4. If it is necessary to add fluid, unscrew the cap on the expansion tank. The cap has left hand threads. See figure 20. **Remove the rubber bladder.** Add fluid using a funnel. Do not overfill.
5. Reassemble parts.

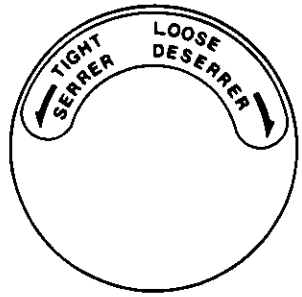


FIGURE 20.

If frequent additions are required, locate the leak and correct. Inadequate supply of fluid may result in permanent internal damage.

If the natural color of the transmission fluid has changed, black or milky, overheating and/or water contaminate is indicated. The fluid should be drained and replaced with new transmission fluid.

To drain the hydrostatic transmission, remove the hex plug on the bottom of the hydrostatic transmission.

HYDROSTATIC TRANSMISSION COOLING

The hydrostatic transmission is cooled by the oil, fan and fins. If the hydrostatic transmission runs hot, check to see if the fan is in operating condition, the oil level is correct and the fins are clean.

NOTE: *DO NOT use high pressure water spray or steam to clean the hydrostatic transmission.*

MAINTENANCE

WARNING: Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

TROUBLE SHOOTING

Refer to the chart on pages 19 and 20 for trouble shooting engine problems.

CRANKCASE OIL

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Oil level should be maintained as instructed in the separate engine manual.

After the first two hours of operating a new engine, drain the oil from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. Refer to the engine manual.

FUEL FILTER

Your unit is equipped with a replaceable in-line fuel filter. Replace filter whenever contamination or discoloration is noticed. Order replacement filter through your authorized engine service dealer.

CLEANING ENGINE AND DECK

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the deck after each mowing.

WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in, follow these steps.

1. Remove the hex nut and lock washer, and drop the end of the tie rod from the axle bracket. See figure 21.
2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.

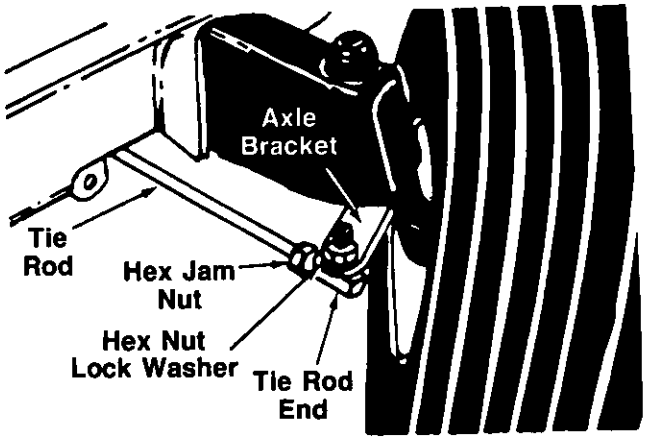


FIGURE 21.

Dimension "B" should be approximately 1/8" less than Dimension "A." See figure 22. To increase Dimension "B," screw tie rod into tie rod end. To decrease Dimension "B," unscrew tie rod from tie rod end. Reassemble tie rod. Check dimensions. Readjust if necessary.

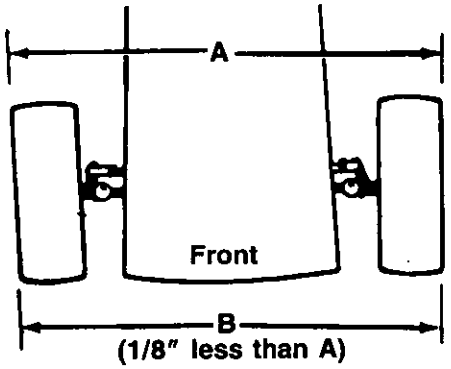


FIGURE 22.

ENGINE

Refer to separate engine manual for all engine maintenance procedures.

CUTTING BLADES

A. Removal for Sharpening or Replacement

WARNING: Be sure to disconnect and ground the spark plug wire and remove ignition key before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades.

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

B. Sharpening

Remove the cutting blades by following the directions of the preceding section.

When sharpening the blades, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

NOTE: *It is recommended that the blade always be removed from the adapter for the best test of balance.*

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing blades, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 AMPS.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

STORAGE OF THE BATTERY

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.

3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

COMMON CAUSES FOR BATTERY FAILURE

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

NOTE: *These failures do not constitute warranty.*

BATTERY REMOVAL OR INSTALLATION

WARNING: When removing the battery, follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

WARNING: Failure to use this starting procedure could cause sparking, and the gases in either battery could explode.

TIRES

Recommended operating tire pressure is approximately 12 p.s.i. (check sidewall of tire for tire manufacturer's recommended pressure). Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

When installing a tire to the rim, be certain rim is clean and free of rust. Lubricate both the tire and rim generously. Never inflate to over 30 p.s.i. to seat beads.

WARNING: Excessive pressure (over 30 p.s.i.) when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.

DRIVE BELT REPLACEMENT (See figure 23)

1. Depress the clutch pedal and set parking brake.
2. Remove the deck from the lawn tractor.
3. Raise and block the front wheels of the lawn tractor so you can work under it.
4. Remove the transmission panel, and unhook the spring from the rear idler pulley.
5. Remove the four self-tapping screws which hold the belt keeper assembly to the frame at the engine pulley. Remove the belt keeper assembly.
6. Loosen both the front and rear idler pulleys. Remove the belt from around the idler pulleys.
7. Roll the belt off of top sheave of engine pulley, onto the pulley hub.
8. **Units with Cold Weather Starting Kits Installed:** Remove the rear belt guard at the transmission pulley by removing two hex bolts, lock washers and hex nuts.
9. Remove belt from the transmission pulley, lifting the belt up over the fan on top of the pulley.
10. Remove belt from the engine pulley, and remove from the unit.

Reassemble using a new belt, following instructions in reverse order.

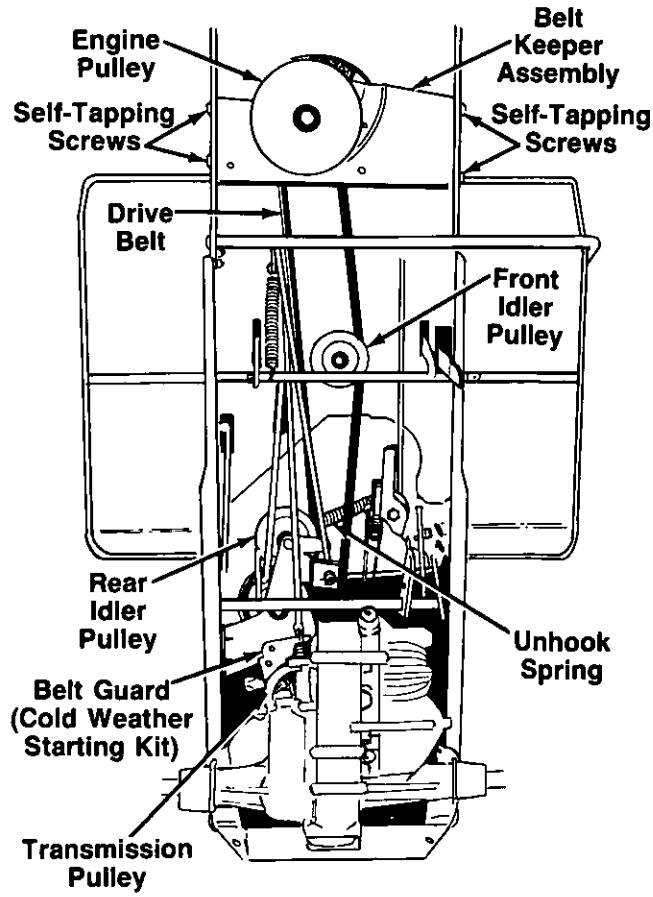


FIGURE 23.

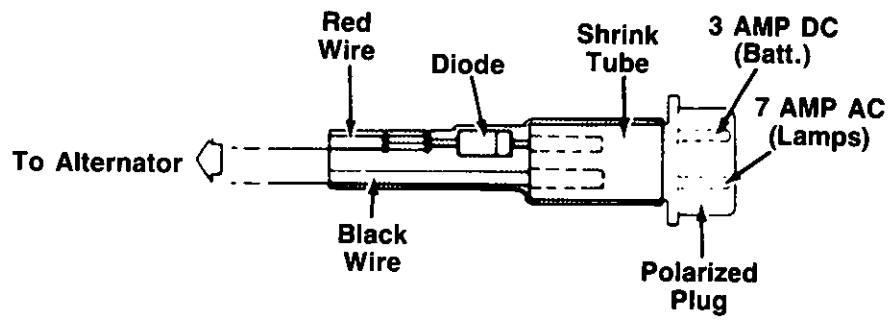
OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. Refer to battery storage instructions on page 16.
5. Store unit in a clean, dry area.

NOTE: *When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.*

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative terminal, identified at the terminal post by (Neg, N or −), grounded. The positive terminal (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blown fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working. The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.  The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.
	Mechanical failure (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. **If the engine does not crank:** (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke for starting.
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel line or in-line fuel filter plugged. Remove and clean fuel line. Replace filter if necessary.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	**Stop engine immediately.** Check all pulleys, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	**Stop engine immediately.** Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission speed. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only).

HYDROSTATIC TRANSMISSION TROUBLE SHOOTING

No output torque (power) in either direction, cold start.	1. Recheck relief valve position, control linkage, input drive. 2. Oil level in reservoir low. 3. Broken control shaft dowel pin. Transmission must be repaired or replaced.
Loss of output torque, continuous load.	1. Operating at conditions approaching hydraulic stall. The transmission fluid has exceeded 180° F. 2. Internal leakage due to wear. Transmission should be repaired or replaced. 3. Water in transmission fluid. Purge system of all fluid and replace with new transmisison fluid. Replacement of the transmission is generally not necessary.
No output torque in one direction.	1. One of the directional valves is stuck. Transmission should be repaired or replaced. 2. Low oil level.
Lawn tractor cannot be pushed with engine off.	1. Relief valve control not set. 2. Relief valve travel not adjusted. 3. Motor piston or rotor seized. Transmission must be repaired or replaced.
No neutral.	Recheck linkage. Loose linkage creates an adjustment problem. Note: The hydraulic neutral band is very narrow. Deflection in the linkage may make it difficult to obtain neutral from both directions. It is recommended that neutral should be positive from forward drive.
Oil leakage at the control shaft seal.	1. Spillage when fluid has been added to the reservoir. 2. Spillage at the vent in the reservoir at operating temperatures due to cold level being too high or water in the fluid. Reduce fluid level or replace fluid in the event there is water in it (milky color). 3. Loose oil reservoir or cover. 4. Loose vent bolt. 5. Damaged control shaft seal. Transmission should be repaired.
Noisy operation.	1. Operating at part throttle. Hydrostatic transmission is designed to operate with the engine running at full throttle. 2. Water in transmission fluid. Replace transmission fluid. 3. Air in transmission fluid. Bleed air from vent.
Output shaft rotates in the opposite direction.	The transmission body is 180° out of position. Transmission has to be removed and reassembled correctly.

NOTES

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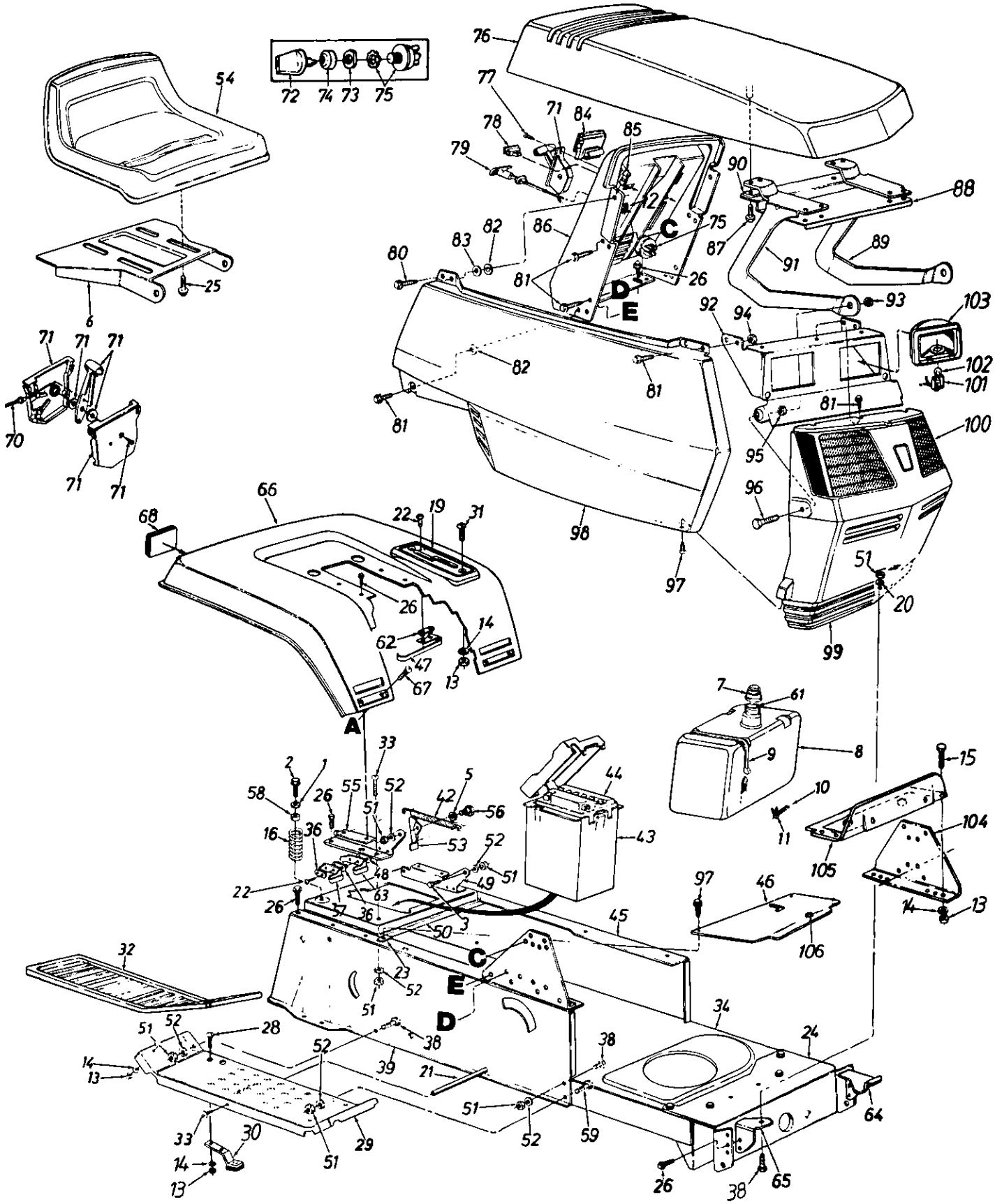


130704F

PARTS LIST FOR MODEL 130704F LAWN TRACTOR

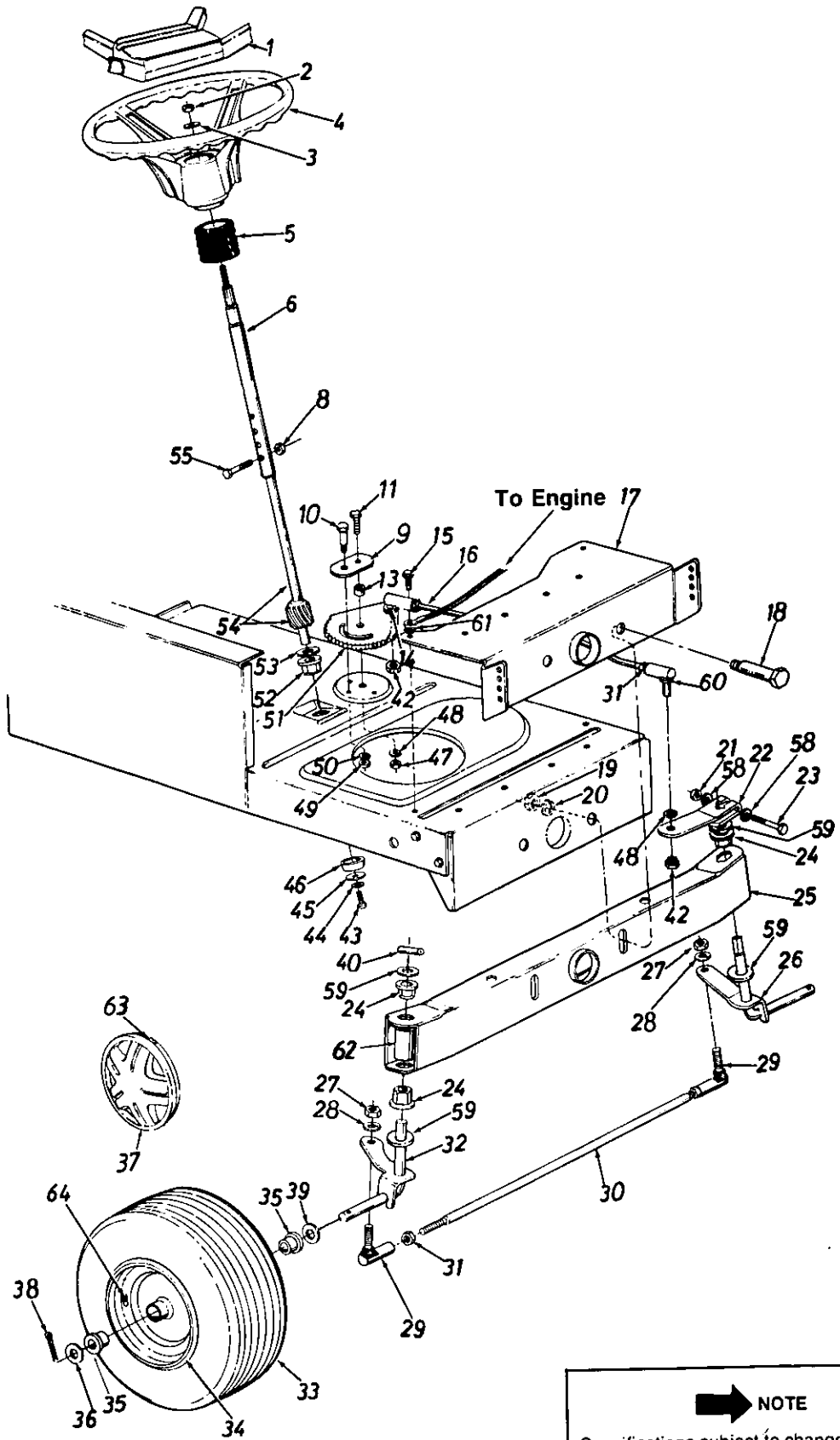
REF. NO.	PART NO.	CODE	DESCRIPTION
1	736-0159		Fl-Wash. .344" I.D. x .875"
2	710-0817		Hex Wash. Hd. Tap Scr. 5/16-18 x 1.25" Lg.
3	738-0155		Shld. Bolt .437" Dia. x .162"
5	736-0141		Spr-Wash. .445" I.D. x .75
6	15607D		Seat Pivot Bracket
7	723-3071		Fuel Cap w/o Gasket
8	751-0553	N	Fuel Tank
9	726-0209		Tie Strap
10	751-0535-15		Fuel Line
11	726-0205		Hose Clamp
12	17782	N	Choke Retainer
13	712-0287		Hex Nut ¼-20 Thd.*
14	736-0329		L-Wash. ¼" I.D.
15	710-0258		Hex Bolt ¼-20 x .62" Lg.*
16	732-0588		Compression Spring
19	731-1053A	N	Speed Control Index Brkt.
20	736-0295		Flat Wash. 5/16" I.D.
21	738-0526		Running Board Rod
22	710-0227		Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg.
23	726-0139		Speed Nut #10Z
24	17621	N	Front Pivot Brkt.
25	710-0623		Hex Tap Scr. 3/8-16 x .75"
26	710-0726		Hex Wash. Hd. AB-Tap Scr. 5/16 x .75" Lg.
28	710-0134		Carriage Bolt ¼-20 x .62"*
29	17770	N	Running Board (R.H. & L.H.)
30	761-0168A	N	Blade Brake Ass'y.
31	710-0924		Truss Mach. Scr. ¼-20 x .75" Lg.
32	731-0911		Rubber Foot Pad—L.H.
	731-0912		Rubber Foot Pad—R.H.
33	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*
34	17620	N	Lower Frame
36	726-0279	N	Insulator Plate
38	710-0118		Hex Bolt 5/16-18 x .75" Lg.*
39	17622	638/N	Upper Frame—R.H.
42	732-0581		Extension Spring 5.31" Lg.
43	731-0871A		Battery Box w/Cover
44	725-0514A		12-V Battery
45	17623	638/N	Upper Frame—L.H.
46	17775		Shift Cover
47	725-0759		Reverse Safety Switch
48	726-0278	N	Insulator Boss Plate
49	17701	N	Seat Pivot Brkt. Support—L.H.
50	17225A	N	Hitch Plate
51	712-0267		Hex Nut 5/16-18 Thd.*
52	736-0119		L-Wash. 5/16" I.D.*
53	17239A	N	Seat Lift Brkt.
54	757-0345		Seat
55	17702	N	Seat Pivot Brkt. Support—R.H.
56	738-0296		Shld. Bolt .437" Dia. x .268"
57	725-1303		Spring Switch
58	722-0160		Bushing
59	710-0650		Hex Wash. Hd. Scr. 5/16-18 x .87" Lg.
61	723-3003	N	Fuel Cap Gasket
62	726-0222		Insulator Nut Plate
63	725-1439	N	Safety Switch (Seat)
64	705-0167	N	Grille Mount Brkt.—L.H.
65	705-0166	N	Grille Mount Brkt.—R.H.
66	17328	499/N	Fender
67	710-0167		Carriage Bolt ¼-20 x .62" Lg.
68	730-3000		Reflector
70	746-0501		Throttle Wire 18.5" Lg.
71	831-0823A		Throttle Control Box Ass'y.
72	725-1341B		Ignition Key
73	725-1346		Ignition Switch Nut
74	725-1347		Ignition Switch Cap
75	725-0267		Ignition Switch
76	731-0932B	499	Hood
77	710-0779A		Truss Mach. AB-Tap Scr. #10 x .5" Lg.
78	725-0634		Light Switch
79	746-3021	N	Choke Control 29" Lg.
80	710-0642		Hex Wash. Hd. Tap Scr. ¼ x .75" Lg.
81	710-0599		Hex Tap Scr. ¼-20 x .5" Lg.
82	726-0233		Push Nut Fastener
83	736-0176		Fl-Wash. .27" I.D. x .948"
84	725-0925		Ammeter
85	712-0185		Speed Nut ¼-20 Thd.
86	731-0956		Dash Panel
87	710-0896		Hex Wash. Hd. B-Tap Scr. ¼ x .62" Lg.
88	16808		Hood Reinforcement
89	17761	N	Hood Hinge—L.H.
90	17762	N	Hood Reinforcement Spacer
91	17760	N	Hood Hinge—R.H
92	17223		Light Bracket
93	712-0158		Hex L-Nut 5/16-18 Thd.
94	712-0107		Hex L-Nut ¼-20 Thd.
95	712-3007		Hex Jam Nut 5/16-18 Thd.
96	710-3038	N	Hex Bolt 5/16-18 x 7/8" Lg.
97	710-0351		Truss Mach. B-Tap Scr. #10 x .5" Lg.
98	731-0938	499	Side Cover—R.H.
	731-0943	499	Side Cover—L.H. (Not Shown)
99	731-0935	499	Grille
100	731-0949		Lens—L.H.
	731-0948		Lens—R.H.
101	725-1058A		Twist Lock—Lamp Socket
102	725-0963		Lamp
103	731-0705		Headlight Housing
104	17300C	N	Dash Support Brkt.
105	17633	N	Gas Tank Support Brkt.
106	731-0405		Snap Bushing

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

CODE: N notates a **new part** (not previously existing). A three digit number is the **color code.** Specify color code as shown below if color or finish is important when ordering parts. [i.e., 638 for Red Finish].

499—Beige, 638—Red

130704F



NOTE

Specifications subject to change without notice or obligation.

130704F

PARTS LIST FOR MODEL 130704F LAWN TRACTOR

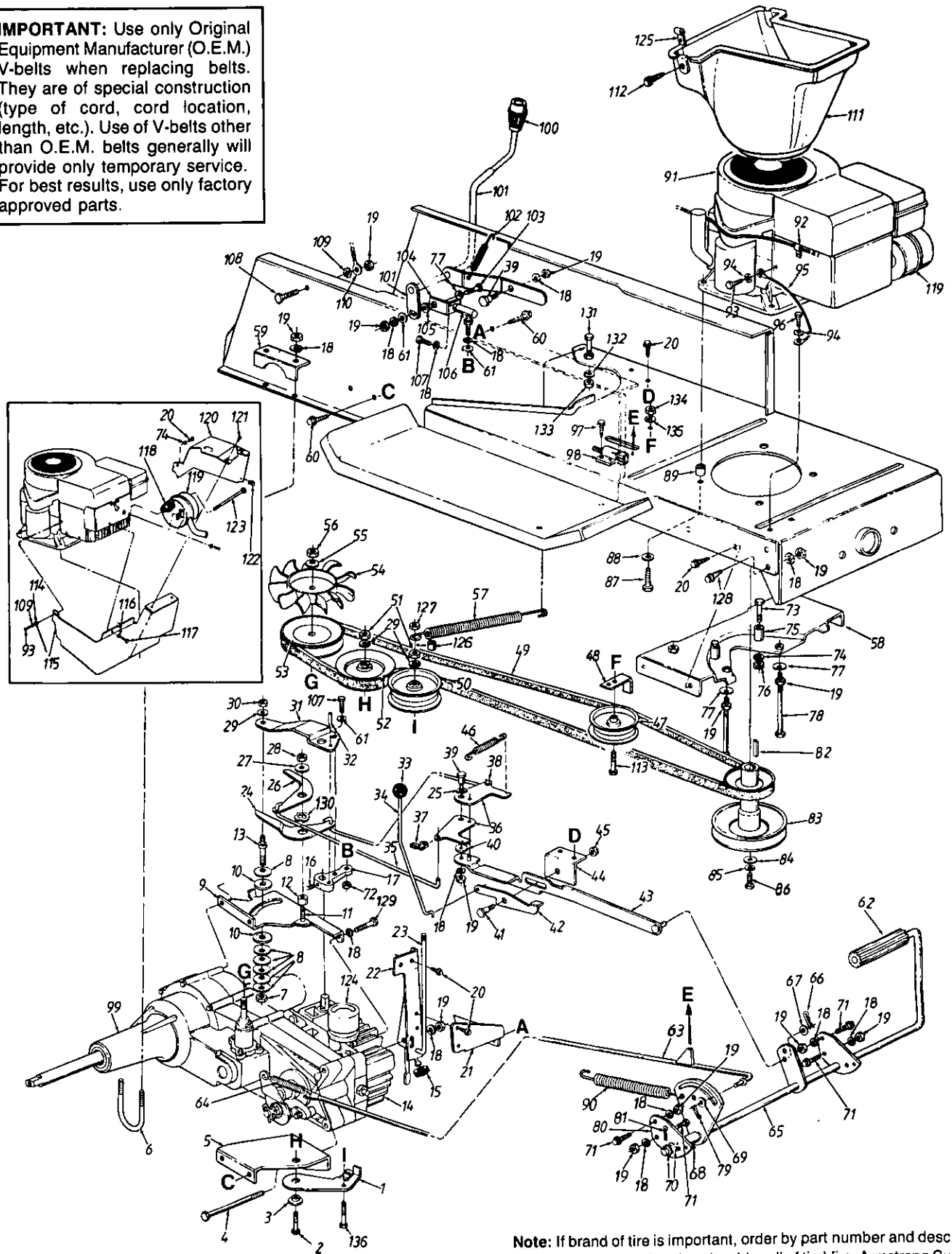
REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	731-0955		Steering Wheel Insert	33	734-1619	N	Wheel Ass'y. Comp.
2	712-0237		Hex L-Nut 5/16-24 Thd.		734-0864		Tire Only
3	736-0242		Belleville Wash. .345" I.D.	34	734-0997A		Front Wheel Rim Only
4	731-0806A		Steering Wheel	35	741-0353		Bronze Flange Bearing
5	731-0954		Steering Bellow	36	736-0285		Fl-Wash. .635 I.D. x 1.59" O.D.
6	16512		Steering Column Ass'y.				
8	712-0324		Hex L-Nut ¼-20 Thd.	37	731-1612	N	Front Wheel Hub Cap
9	17198		Retainer Plate	38	714-0470		Cotter Pin 1/8" Dia. x 1.25"*
10	738-0141		Shoulder Bolt .437" Dia. x .35 Lg. 5/16-18 Thd.	39	736-0187		Fl-Wash. .640" I.D. x 1.24" O.D.
11	710-0152		Hex Bolt 3/8-24 x 1.0" Lg. (Grade 5)	40	715-0150		Spring Roll Pin 1.12" Lg.
				42	712-0711		Hex Jam Nut 3/8-24 Thd.*
13	750-0535		Spacer .380" I.D. x .625" O.D. x .227	43	710-0538		Hex L-Bolt 5/16-18 x .62"*
				44	736-0119		L-Wash. 5/16" I.D.*
14	736-0169		L-Wash. 3/8" I.D.*	45	736-0343		Fl-Wash. .33" I.D. x 1.25" O.D.
15	710-0726		Hex Wash. Hd. Self-Tap Scr.				
16	711-0788		Steering Drag Link	46	750-0532		Spacer (Plastic)
17	17621	N	Front Pivot Brkt.	47	712-0241		Hex Nut 3/8-24 Thd.*
18	738-0527		Shoulder Bolt .498" Dia. x 2.04 Lg. 3/8-16 Thd.	48	736-0169		L-Wash. 3/8" I.D.*
				49	712-0267		Hex Nut 5/16-18 Thd.*
19	712-0798		Hex Nut 3/8-16 Thd.*	50	736-0119		L-Wash. 5/16" I.D.*
20	736-0169		L-Wash. 3/8" I.D.*	51	717-0622A	N	Steering Gear Segment
21	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	52	741-0225		Hex Flg. Brg. .634 I.D.
				53	736-0187		Fl-Wash. (Hardened)
22	16481		Steering Arm Front Axle	54	738-0522A		Steering Shaft Lower
23	710-0772		Hex Bolt 5/16-24 x 2.00" Lg. (Grade 5)	55	710-0958		Hex Bolt ¼-20 x 1.25" Lg. (Special)
24	741-0225		Hex Flg. Brg. .634 I.D.	58	736-0271		Wave-Wash. .32" I.D. x .62" O.D.
25	14608		Pivot Bar Ass'y.				
26	17753	N	Front Axle Ass'y.—L.H.	59	736-0187		Fl-Wash. (Hardened)
27	712-0241		Hex Nut 3/8-24 Thd.*	60	723-3018		Drag Link Ball Joint 3/8-24 Thd.
28	736-0169		L-Wash. 3/8" I.D.*				
29	723-3018		Ball Joint 3/8-24 Thd.	61	736-0607		Ext. L-Wash. 5/16" I.D.
30	747-0753	N	Tie Rod	62	731-1134	N	Plastic Tube
31	712-0711		Hex Jam Nut 3/8-24 Thd.*	63	727-0425		Spring Clip (Used w/Ref. #37)
32	17754	N	Front Axle Ass'y.—R.H.	64	734-0255		Air Valve

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

Note: If brand of tire is important, order by part number and description (description is printed on the sidewall of tire) [i.e. Armstrong Super Turf, Goodyear Softrac, Carlisle Turf Saver, etc.].

130704F

IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) V-belts when replacing belts. They are of special construction (type of cord, cord location, length, etc.). Use of V-belts other than O.E.M. belts generally will provide only temporary service. For best results, use only factory approved parts.



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130704F

PARTS LIST FOR MODEL 130704F LAWN TRACTOR

REF. NO.	PART NO.	CODE	DESCRIPTION
1	17746	N	Idler Bracket
2	710-0427		Hex Bolt 3/8-16 x 2.0" Lg.
3	738-0347		Shld. Spacer .625" I.D.
4	710-3195		Hex Bolt 5/16-18 x 4.5" Lg. (Gr. 5)
5	17747	N	Idler Plate
6	710-3193		U-Bolt 5/16-18 x 1.75" Lg.
7	712-0116		Hex L-Nut 3/8-24 Thd.
8	736-0219		Bell-Wash. .40" I.D. x 1.13"
9	17743	N	Mounting Bracket
10	761-0196	N	Friction Washer
11	710-1012		Rib Neck Bolt 5/16-24 x .84" Lg.
12	750-0808	N	Spacer
13	738-0827	N	Axle
14	717-0940		Hydrostatic Pump
15	735-0126		Rubber Washer .33" I.D.
16	710-0257		Set Screw
17	748-0328A	N	Pintle Shift Lever
18	736-0119		L-Wash. 5/16" I.D.*
19	712-0267		Hex Nut 5/16-18 Thd.*
20	710-0599		Hex Wash. Hd. TT-Tap Scr. ¼-20 x .5" Lg.
21	17769	N	Reinforcement Plate
22	17744	N	Transmission Torque Brkt.
23	747-0764	N	Release Valve Rod
24	17737	N	Reverse Arm
25	736-0174		Spring Washer .625" I.D.
26	17745	N	Forward Arm
27	736-3078	N	Fl-Wash. .344" I.D. x 1.0"
28	712-0237		Hex Cent. L-Nut 5/16-24 Thd.
29	736-0169		L-Wash. 3/8" I.D.*
30	712-0241		Hex Nut 3/8-24 Thd.
31	17765	N	Pintle Arm Ext. Plate
32	715-0156		Roll Pin 1/4" Dia. x .75" Lg.
33	720-0166		Ball Knob
34	747-0601	N	Lock-Up Rod
35	747-0763	N	Connection Rod
36	17757	N	Balancer Bracket
37	726-0281	N	Rod End Clevis Clips—R.H.
38	726-0280	N	Rod End Clevis Clips—L.H.
39	738-0296		Shld. Bolt .437" Dia. x .268"
40	736-3074	N	Fl-Wash. .344" I.D. x 1.12"
41	738-0141		Shld. Bolt .437" Dia. x .35"
42	17738	N	Lock-Up Bracket
43	17756	N	Neutral Return Brkt. Ass'y.
44	17755	N	Bracket
45	712-0158		Hex Cent. L-Nut 5/16-18 Thd.
46	732-0387		Ext. Spring 2.5" Lg.
47	756-0116		Idler Pulley 3.06" O.D.
48	13819		Clutch Idler Belt Guard
49	754-0372	N	"V"-Belt
50	756-0515		Flat Idler
51	712-0798		Hex Nut 3/8-16 Thd.*
52	756-0577	N	Idler Pulley 4.0" O.D.
53	756-0571	N	Transmission Pulley
54	731-1145	N	Hydro Fan
55	736-0427		Bell-Wash. .56" I.D. x 1.125"
56	712-3035	N	Hex Jam Nut 9/16-18 Thd.
57	732-0641	N	Extension Spring
58	17821	N	Belt Guard Brkt. Ass'y.
59	17818	N	Bracket
60	710-0603		Hex Wash. Hd. B-Tap Scr. 5/16-18 x .5" Lg.
61	736-0261		Flat Tooth Washer 5/16" I.D.
62	735-0196		Foot Pad
63	17686	N	Brake Rod Ass'y.
64	732-0649		Ext. Spring 3.67" Lg.
65	17715A	N	Clutch Brake Pedal Ass'y.
66	714-0104		Intern. Cotter Pin 5/16" Dia.
67	736-0140		Fl-Wash. .385" I.D. x .62"
68	750-0802	N	Spacer .63" I.D.
69	736-0117		Fl-Wash. .385" I.D. x .62"
70	736-0256		Fl-Wash. .635" I.D. x 1.0"
71	710-0650		Hex Wash. TT-Tap Scr. 5/16-18 x 7/8" Lg.
72	712-0123		Hex Nut 5/16-24 Thd.
73	710-0886		Hex Flange Bolt ¼-20 x 1.5" Lg.
74	736-0329		L-Wash. 1/4" I.D.*
75	750-0810	N	Spacer
76	712-0287		Hex Nut ¼-20 Thd.*
77	736-0242		Bell-Wash. .345" I.D. x .88"
78	710-0190		Hex Bolt 5/16-18 x 4.0" Lg.
79	714-0507		Cotter 3/32" Dia. x .75" Lg.
80	15835A		Pedal Brkt.
81	714-0111		Cotter Pin 3/32" Dia. x 1.0" Lg.
82	714-0114		Sq.-Key 1/4" x 2.0"
83	756-0562	N	Engine Pulley
84	736-0322		Fl-Wash. 7/16" I.D. x 1.25"
85	736-0171		L-Wash. 7/16" I.D. (H.D.)
86	710-0757		Hex Bolt 7/16-20 x 1.5" Lg.
87	710-1007		Hex Wash. Hd. TT-Tap Scr. 3/8-16 x 1.5" Lg.
88	736-0247		Fl-Wash. .406" I.D. x 1.25"
89	750-0777		Spacer .38" I.D. x 1.25" O.D.
90	732-0643	N	Extension Spring 6.11" Lg.
91	—		Engine
92	726-0235		Speed Clip
93	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*
94	736-0607		External L-Wash. 5/16" I.D.
95	725-0977		Electric Ground Wire
96	710-0726		Hex Wash. AB-Tap Scr. 5/16 x .75"
97	710-1066	N	Hex Wash. Hd. B-Tap Scr. #10 x 3/8" Lg.
98	725-3169	N	Safety Switch (Clutch)
99	717-0950		Transaxle
100	720-0218		Shift Knob
101	17734	N	Speed Selector Lever Ass'y.
102	732-0433		Ext. Spring 2.75" Lg.
103	710-0874		Hex Bolt 5/16-18 x 1.25" Lg.*
104	17742	N	Connection Brkt.
105	711-0404		Shoulder Nut
106	723-3011	N	Ball Joint 5/16-24 Thd.
107	710-0157		Hex Bolt 5/16-24 x .75" Lg.*
108	710-0118		Hex Bolt 5/16-18 x .75" Lg.*
109	736-0607		External L-Wash. 5/16" I.D.
110	725-0977		Ground Wire 11.5" Lg.

130704F

PARTS LIST FOR MODEL 130704F LAWN TRACTOR (CONTINUED)

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
111	731-1072	N	Air Duct	124	717-3049		Reservoir
112	710-0473		Truss Mach. Scr. #10-24 x .5" Lg.	125	712-0147		Speed Nut #10-24 Thd.
				126	750-0504		Spacer .375" I.D. x .503"
113	710-0539		Hex Bolt 3/8-24 x 1.75" Lg.	127	712-0266		Hex Jam Nut 3/8-16 Thd.
114	725-0980		Ground Wire 7.25" Lg.	128	710-0604		Hex Wash. TT-Tap Scr. 5/16-18 x .62"
115	16936		Muffler Heat Shield—Front				
116	736-0175		L-Wash. .265" I.D.	129	710-0974		Hex Bolt 5/16-18 x 4¾" Lg.
117	710-0294		Hex Bolt ¼-20 x 3/8" Lg.*	130	736-0174		Spring Washer .625" I.D.
118	721-0208		Gasket	131	710-0106		Hex Bolt ¼-20 x 1.25" Lg.
119	751-0465		Muffler	132	736-0329		L-Wash. ¼" I.D.*
120	16935		Muffler Heat Shield—L.H.	133	712-0287		Hex Nut ¼-20 Thd.
121	710-0224		Hex Wash. Tap Scr. #10 x .5" Lg.	134	712-0214		Hex L-Nut 3/8-24 Thd.
				135	736-0300		Fl-Wash. .385" I.D. x .87"
122	712-0147		Speed Nut #10-24 Thd.	136	710-0756		Hex Bolt 3/8-16 x 2.5" Lg.
123	738-0636		Shld. Bolt 7/16" Dia. x 3-5/8"				

Note: Cold Weather Starting Kit available as optional equipment. Order part no. 753-0509.

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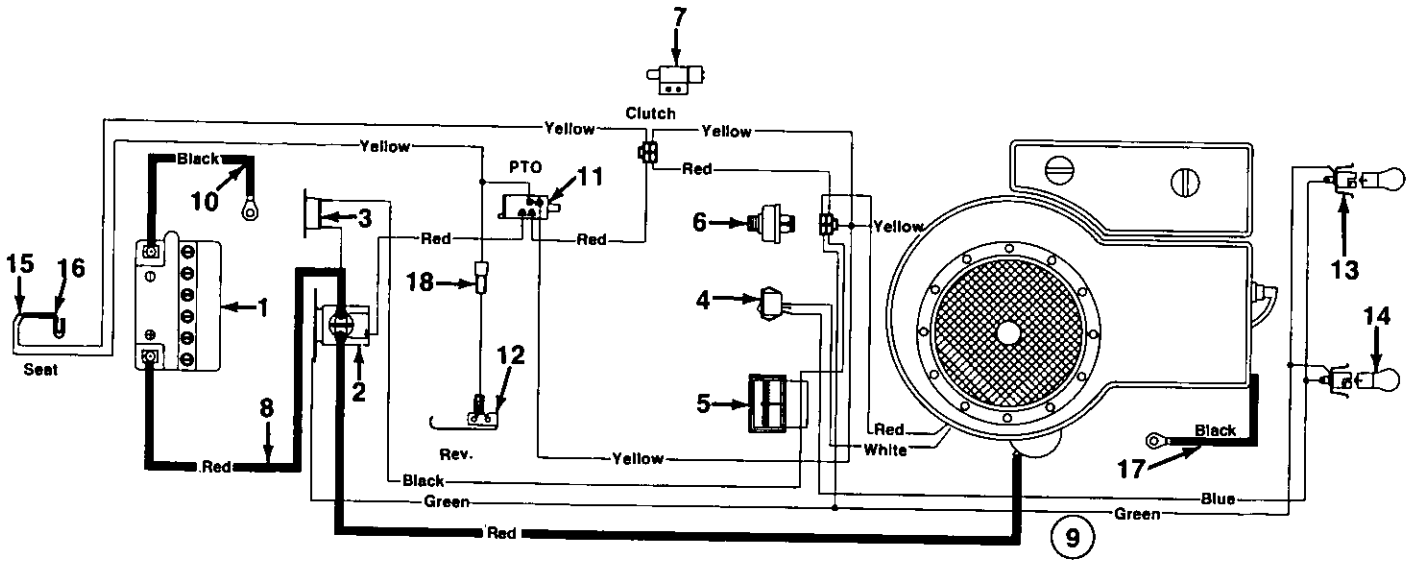

PARTS LIST FOR ELECTRICAL SYSTEM

REF. NO.	PART NO.	CODE	DESCRIPTION	REF. NO.	PART NO.	CODE	DESCRIPTION
1	725-0514A		Battery	10	725-0977		Ground Wire 11.5″ Lg.
2	725-1426	N	Solenoid	11	725-0803B		Safety Switch (Deck)
3	725-0459		Circuit Breaker	12	725-0759		Safety Switch (Reverse)
4	725-0634		Light Switch	13	725-1058A		Socket
5	725-0925		Ammeter	14	725-0963		Bulb
6	725-0267		Ignition Switch	15	725-1303		Safety Switch (Seat)
7	725-3169		Safety Switch (Clutch)	16	725-1439	N	Safety Switch (Seat)
8	725-1351		Electric Wire—8″ Lg.	17	725-0980		Ground Wire 7.5″ Lg.
9	725-1494	N	Wire Harness	18	725-1548	N	Ext. Wire

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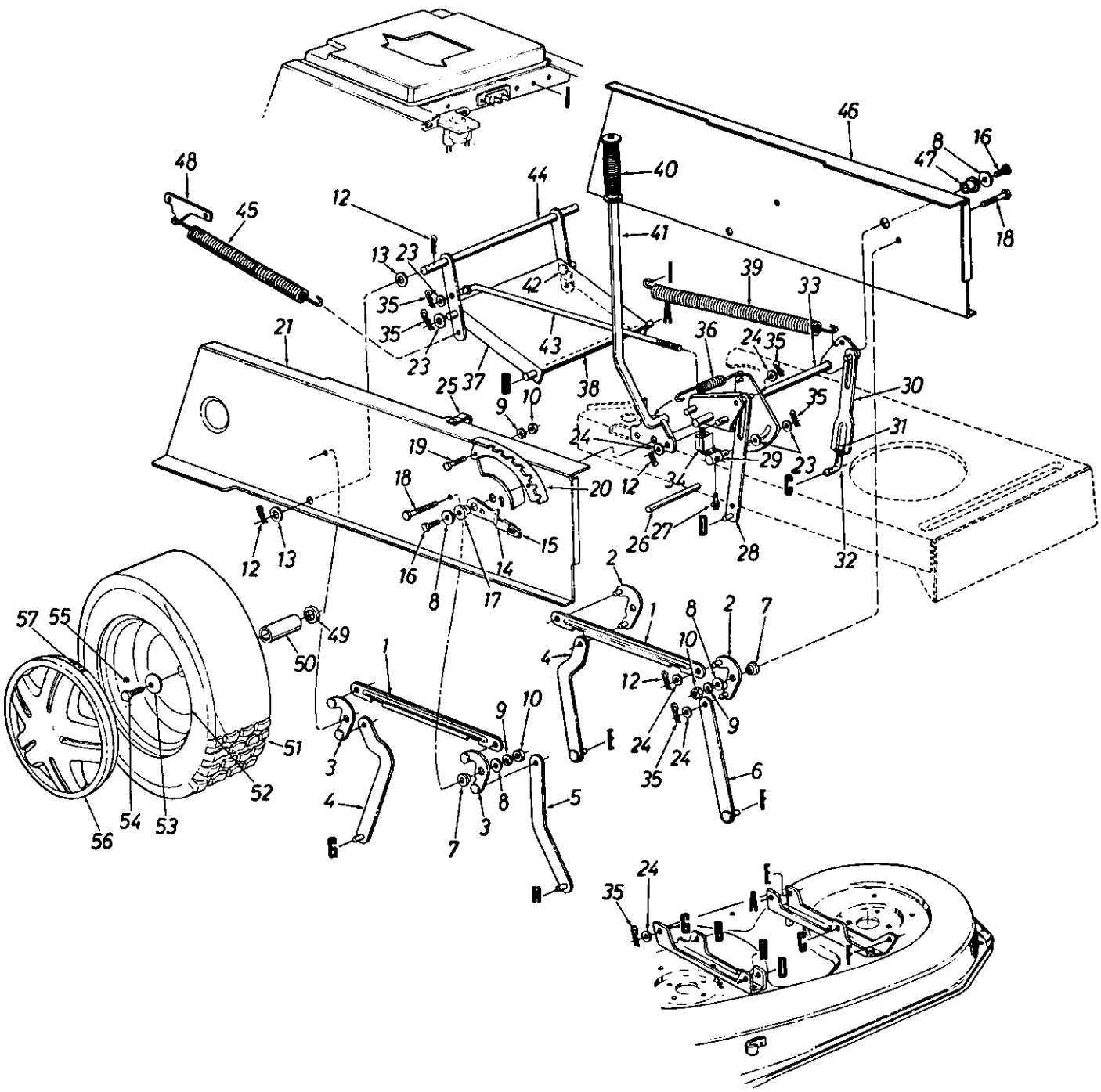
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130704F

PARTS LIST FOR MODEL 130704F LAWN TRACTOR

REF. NO.	PART NO.	CODE	DESCRIPTION
1	09735A		Connecting Rod
2	17640	N	Pivot Link Ass'y.—L.H.
3	17641	N	Pivot Link Ass'y.—R.H.
4	17710	N	Deck Hanger Link Ass'y.
5	14800A	N	Deck Hanger Link Ass'y.
6	14804A	N	Deck Hanger Link Ass'y.
7	748-0331		Shld. Spacer .318" I.D.
8	736-0231		Fl-Wash. .344" I.D. x 1.125"
9	736-0119		L-Wash. 5/16" I.D.*
10	712-0267		Hex Nut 5/16-18 Thd.*
12	714-0115		Cotter Pin 1/8" Dia.
13	736-0256		Fl-Wash. .635" I.D. x 1.0" O.D.
14	732-0412A		Deck Lift—Down Stop (Incl. Ref. 15)
15	08540		Knob
16	710-0604		Hex Wash. TT-Tap Scr. 5/16-18 x .75" Lg.
17	748-0176		Flange Brg. .63" I.D.
18	710-0650		Hex Wash. TT-Tap Scr. 5/16-18 x .875" Lg.
19	710-0118		Hex Bolt 5/16-18 x .75" Lg.
20	17730	N	Index Brkt.
21	17622	N	Upper Frame—R.H.
23	736-0267		Fl-Wash. .385" I.D. x .87" O.D.
24	736-0160		Fl-Wash. .531" I.D. x .93" O.D.
25	726-0272		Clamp
26	738-0526		Running Board Rod
27	710-0351		Truss Mach. Scr. #10 x .5" Lg.
28	14802A		Link Deck Lift Ass'y.
29	711-0723A		Adj. Ferrule 3/8-24 Thd.
30	17712	N	Adj. Deck Lift Link
31	712-3066		Hex Nut ½-20 Thd. (Gr. 5)
32	711-0841	N	Lift Link Adjuster
33	17637	N	Lift Shaft Ass'y.
34	725-0803B		Safety Switch (Deck)
35	714-0145		Inter. Cotter Pin 3/8" Dia.
36	732-0637	N	Extension Spring
37	17636A	N	Stabilizer Bracket
38	738-0670	N	Shaft ½" Dia. x 10.28" Lg.
39	732-0638	N	Extension Spring
40	720-0233		Grip (Lift Handle)
41	17675	N	Deck Lift Handle Ass'y.
42	710-0233	N	Weld Pin .375" Dia. x 1.25" Lg.
43	747-0598	N	Disengagement Rod
44	17624	N	Stabilizer Shaft Ass'y.
45	732-0556		Extension Spring
46	17623	N	Upper Frame—L.H.
47	741-0313		Flange Brg. .632" I.D.
48	17820	N	Deck Spring Brkt.
49	736-0188		Fl-Wash. .76" I.D. x 1.49" O.D.
50	731-1086		Sleeve .75" I.D. x 1.0" O.D.
51	734-1675	N	Wheel Ass'y. Comp.
	734-1596	N	Tire Only
52	734-0603A		Wheel Rim Only
53	736-0242		Bell-Wash. .345" I.D. x .88" O.D.
54	710-0627		Hex L-Bolt 5/16-24 x .75" Lg.
55	734-0255		Air Valve
56	734-1614	N	Hub Cap
57	727-0425		Spring Clip

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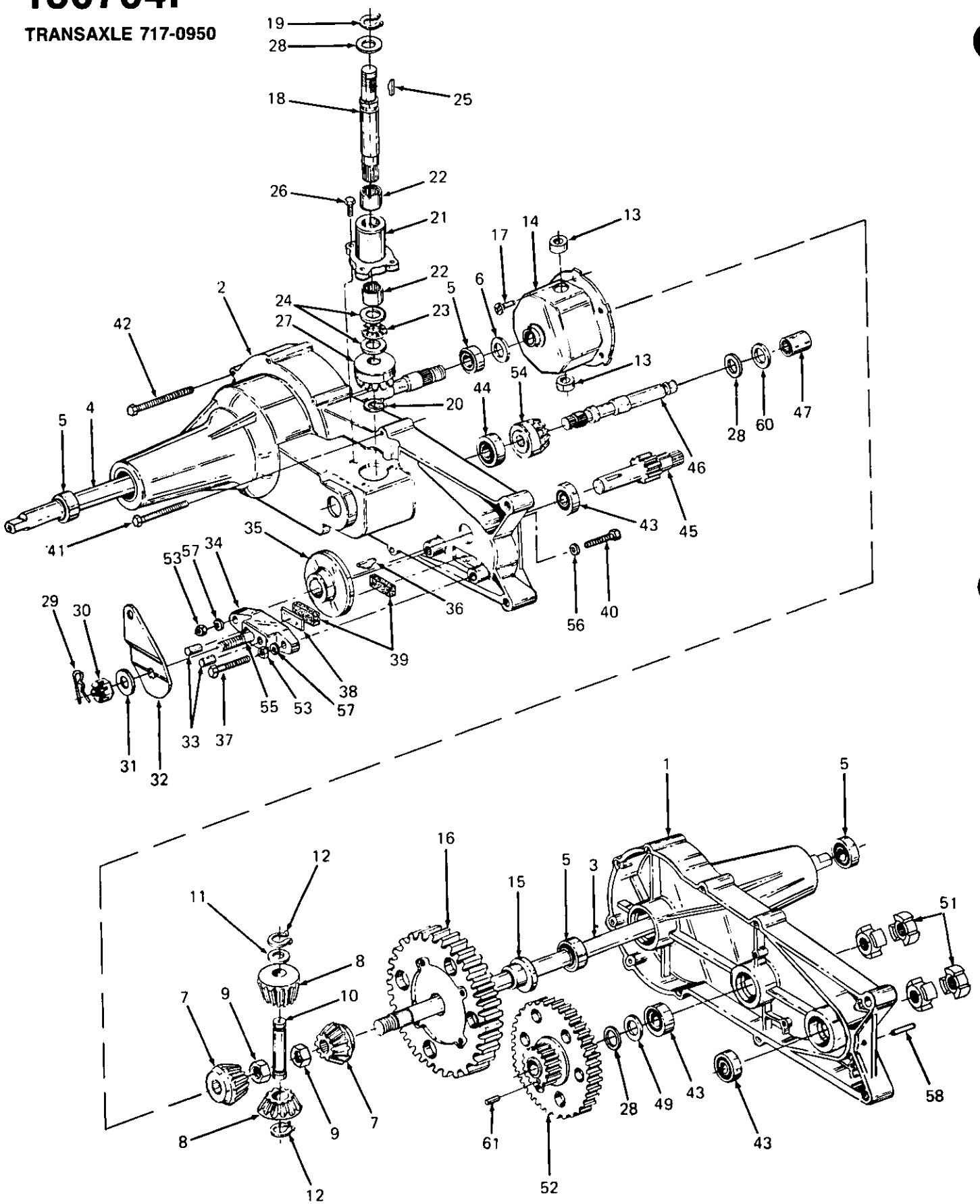
TRANSAXLE 717-0950



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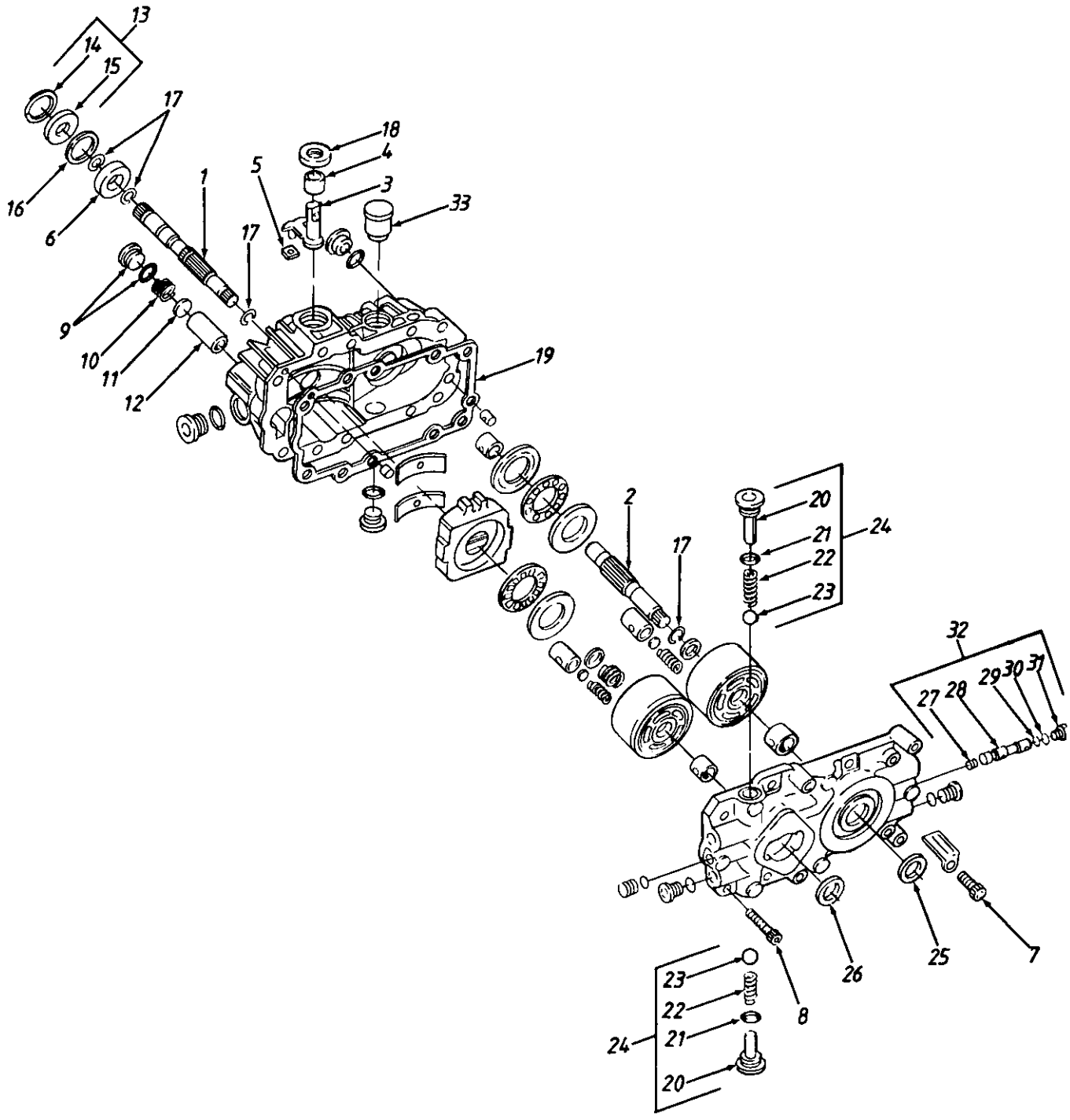
PARTS LIST FOR TRANSAXLE 717-0950

REF. NO.	PART NO.	DESCRIPTION	QTY.	REF. NO.	PART NO.	DESCRIPTION	QTY.
1	AF-44077	Housing Half, L.H.	1	29	714-0507	Pin, Cotter	1
2	AF-44076	Housing Half, R.H.	1	30	712-0335	Nut, Castle, 5/16-24	1
3	AF-44393	Axle, L.H.	1	31	736-0371	Washer, Flat, .343 x .88 x .062 Thk.	1
4	AF-44392	Axle, R.H.	1	32	AF-44094	Arm, Brake Actuator	1
5	AF-44121	Bearing, Ball	4	33	741-0343	Pin, Actuating, 5/16 Dia.	2
6	AF-44008	Washer, Flat, .76 x 1-1/8" x .306 Thk. Hdn.	1	34	717-0679	Yoke, Brake	1
7	717-1019	Gear, Miter	2	35	717-0677	Disc, Brake	1
8	717-1020	Gear, Miter	2	36	714-0161	Key, Hi-Pro, 3/16 x 5/8 Dia.	1
9	712-0200	Nut, Hex Jam Patch Lock, ½-20	2	37	AF-44276	Screw, Hex Patch Lock, ¼-20 x 1.5 Lg.	1
10	717-0673	Shaft, Cross	1	38	717-0682	Plate, Puck	1
11	736-0369	Washer, Flat, .505 I.D. x 1.0	1	39	717-0678	Puck, Brake	2
12	716-0142	Ring, Snap	2	40	AF-44277	Screw, Hex Cap, ¼-20 x 1.5 Lg.	1
13	717-0690	Bearing, Thrust	2	41	AF-44123	Screw, Hex Self-Tap, ¼-20 x 2.0 Lg.	2
14	717-0777	Housing Ass'y. Differential	1	42	AF-44124	Screw, Hex Self-Tap, ¼-20 x 2.75 Lg.	6
15	741-0376	Bearing, Flange, .75 I.D. x .587	1	43	741-0155	Bearing, Ball	3
16	717-0759	Gear, Differential, 72 Tooth	1	44	741-0361	Bearing, Ball	1
17	710-0862	Screw, Pan Hd. Patch Lock ¼-20 x .50 Lg.	4	45	AF-44083	Shaft, Pinion w/11 Tooth Gear	1
18	AF-44270	Shaft, Input	1	46	AF-44080	Shaft, Drive	1
19	716-0115	Ring, Snap	1	47	AF-44342	Bearing, Needle	1
20	716-0108	Ring, Retaining, Ext. 7/16 Dia.	1	49	AF-44110	Washer, Flat, 5/8 x 1.12 x .060 Thk.	1
21	AF-44081	Bearing, Input Housing	1	51	AF-44084	Coupling	4
22	741-0335	Bearing, Needle, 5/8 I.D. x .50 Lg.	2	52	AF-44082	Gear, Tooth 60 & 17	1
23	AF-44139	Bearing, Thrust	1	53	712-0298	Nut, Hex Jam, ¼-20	1
24	AF-44109	Washer, Flat, 5/8 I.D. x 1.12 O.D. x .030 Thk.	2	54	AF-44079	Gear, Drive Pinion, 17 Tooth	1
25	714-0129	Key #4 Hi-Pro, 3/32 x 5/8 Dia. (Hdn.)	1	55	717-0796	Bolt, Square Hd. 5/16-24	1
26	AF-44122	Screw, Hex Patch Lock, ¼-20 x ¾ Lg.	3	56	736-0176	Washer, Flat, .265 x .938 x .12 Thk.	1
27	AF-44078	Gear, Input Pinion, 17 Tooth	1	57	736-0329	Washer, Lock, ¼	1
28	736-0336	Washer, Flat, .62 I.D. x 1.0 O.D. x .030 Thk.	2	58	AF-44269	Pin, Roll, 3/16 Dia. x .50 Lg.	1
	736-0349	Washer, Flat, .62 I.D. x 1.0 O.D. x .020 Thk.	AR	60	AF-44343	Bronze Thrust Brg. 5/8" I.D.	1
	736-0337	Washer, Flat, .62 I.D. x 1.0 O.D. x .040 Thk.	AR	61	AF-44346	Dowel Pin 3/32" x 1/4"	1
				—	737-3047	Grease, Transmission	16 oz.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130704F

PARTS LIST FOR HYDROSTATIC TRANSMISSION 717-0940

REF. NO.	PART NO.	DESCRIPTION	QTY.	REF. NO.	PART NO.	DESCRIPTION	QTY.
1	SU-J1721204	Shaft—Pump	1	22	SU-2003012	Spring	2
2	SU-J1020577	Shaft—Motor	1	23	SU-JHKW03	Ball	2
3	SU-2003005	Arm, Trunnion	1	24	SU-2513014	Kit, Check Valve (Includes Ref. No. 20, 21, 22 & 23)	2
4	SU-2003009	Bearing, Journal	1				
5	SU-2000015	Guide, Slot	1				
6	SU-2003043	Bearing, Ball	1	25	SU-9008000-0127	Seal, Lip	1
7	SU-9007314-0805	Screw, Socket Head	4	26	SU-9008000-0125	Seal, Lip	1
8	SU-9007314-0808	Screw, Socket Head	4	27	SU-2003011	Spring	1
9	SU-9005110-8700	Plug	1	28	SU-2003061	Spool, Bypass	1
10	SU-2003010	Spring, Filter	1	29	SU-9004175-0027	O-Ring	1
11	SU-2000011	Washer, Filter	1	30	SU-9004201-2500	O-Ring	1
12	SU-2003003	Filter	1	31	SU-J1041153	Plug	1
13	SU-2513001	Kit, Seal (Includes Ref. No. 14 & 15)	1	32	SU-2513011	Kit, Bypass Valve (Includes Ref. No. 27, 28, 29, 30 & 31)	1
14	SU-JISB2804A35	Ring, Retaining	1				
15	SU-JSP0632	Seal, Lip	1		SU-2513013	Kit, Overhaul Seal [Includes Ref. No. 14, 15, 16, 17 (Qty. 4), 18, 19, 21 (Qty. 2), 25, 26, 29 & 30]	1
16	SU-2003018	Spacer	1				
17	SU-2003016	Ring, Retaining	4				
18	SU-9008000-0126	Seal, Lip	1				
19	SU-2003001	Gasket	1				
20	SU-J1041007	Plug	2	33	717-3049	Reservoir	1
21	SU-9004201-3700	O-Ring	2				

YARD-MAN PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all YARD-MAN manufactured power equipment are available through local Authorized Service Dealers. Check the yellow pages. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required. DO NOT SEND PARTS ORDERS TO FACTORY. Service Distributors listed below, identified by state abbreviation, may be contacted for service assistance.

BRIGGS & STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engine—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NC, SC — ALLISON-ERWIN CO.
2920 N. Tryon Street
P.O. Box 32308
Charlotte, NC 28232
(704) 334-8621

C-CA — ALL SEASON EQUIPMENT
169 S. Hewes Street
Orange, CA 92669
(714) 639-7272

S-CA — BILLIOUS
75 N "D" Street
Porterville, CA 93257
(209) 784-4102

N-CA, NV — BLISS POWER LAWN EQUIPMENT
101 Commerce Circle
Sacramento, CA 95815
(916) 925-6936

ME, NH, VT — M. L. COFFIN CO.
725 Broadway
Bangor, ME 04401
(207) 942-8289

MS, AL, N-GA — DICKERSON DISTRIBUTORS, INC.
P.O. Drawer 231
127 N. W. Depot
Durant, MS 39063
(601) 653-3004

S-FL — FLORIDA TURF & GARDEN EQUIPMENT
7275 NW 64th St.
Miami, FL 33166
(305) 592-3846

UP-NY — GAMBLE DISTRIBUTING INC.
P.O. Box 389
West End Ave.
Carthage, NY 13619
(315) 493-2270

MI — IDEAL MOWER SALES
811 Woodward Heights
Ferndale, MI 48220
(313) 541-4660

C-FL — MANLEY TRACTOR SALES
5909 E. Broadway
Tampa, FL 33619
(813) 626-5900

IN — McDONOUGH & ASSOCIATES
8535 E. 30th St.
P.O. Box 1915
Indianapolis, IN 46219
(317) 898-4200

WI — MERCO CORP.
4080 N. Pt. Washington Rd.
P.O. Box 12145
Milwaukee, WI 53212
(414) 961-3200

NJ DE, NY MD, PA, WA-DC — NIEMEYER CORP.
1135 Phoenixville Pike
P.O. Box 1477
West Chester, PA 19380
(215) 431-7200

MN, IA, ND, SD — NORTHSTAR OUTDOOR EQUIPMENT CORP.
Hwy. 25 & 18, P.O. Box 764
Brainerd, MN 56401
(218) 829-4271

MO, E-KS — OZARK EQUIPMENT CO.
Hwy. 63 & Black Street
Rolla, MO 65401
(314) 364-2180

IL — PLANTE'S LAWN & GARDEN
4 Grant St.
N. Aurora, IL 60542
(312) 892-2220

N-FL, S-GA, S-AL — POWER EQUIP. DIST. INC.
565 S. Edgewood Ave.
Jacksonville, FL 32205
(904) 387-1512

UT MT, WY S-ID — POWERED PRODUCTS
1661 N. Beck St.
Salt Lake City, UT 84116
(801) 359-9767

OH — RAHRIG SALES INC.
108-110 W. Lima St.
Forest, OH 45843
(419) 273-2556

KY, TN — RASCHE CYCLE CO.
713 Kentucky Ave.
Paducah, KY 42001
(502) 443-8142

C-FL — SPAULDINGS INC
P.O. Box 10009
1921 5th Ave S.
St. Petersburg, FL 33712
(813) 896-2611

CO — SPITZER INDUSTRIAL PRODUCTS
6601 N. Washington Street
Denver, CO 80229
(303) 287-3414

AR, LA, OK, TX — TIMBERLAND SAW CO.
Hwy. 31 South
P.O. Box 1227
Marshall, TX 75671
(214) 935-5251

CANADA — MTD PRODUCTS CANADA
97 Kent Ave.
Kitchener, Ontario
Canada, N2G 4J1
(519) 579-5500

EXPORT — DRAKE AMERICA CORP.
#2 Gannett Drive
White Plains, NY 10604
(914) 697-9800

WARRANTY PARTS AND SERVICE POLICY (0889)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number, Serial Number and/or Date Code** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date** of failure—Date Repaired.
4. **Nature** of failure—Correction.